Technical manual











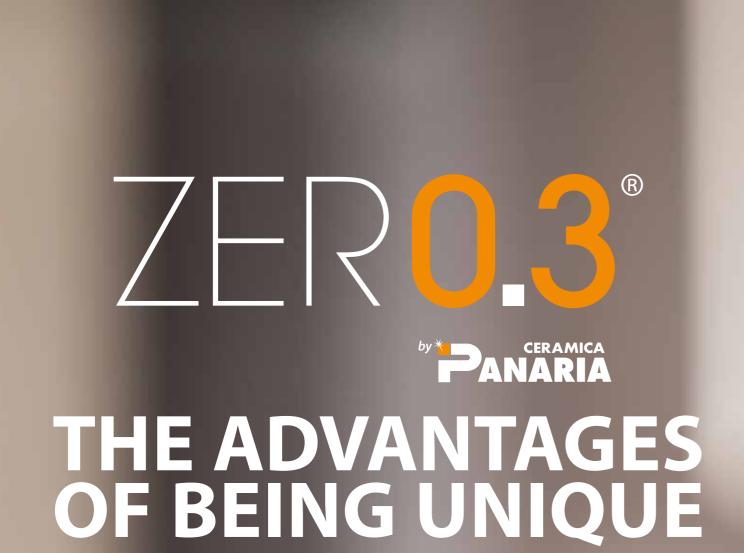














Features



Resistant

ZER0.3 Plus withstands high foot traffic



Large

a range of 10 sizes, up to 3 metres x 1



Flat

the surface is always perfectly flat



Thin and light

a thickness of 3 mm for a weight of only 7.4 kg/m²



Easy

to cut, drill and install



Reliable

used all over the world for many prestigious projects



Guaranteed

20 years warranty



Ecological

lower consumption of energy, lower emissions of CO₂

■ 5 PLUS LAMINATED PORCELAIN STONEWARE



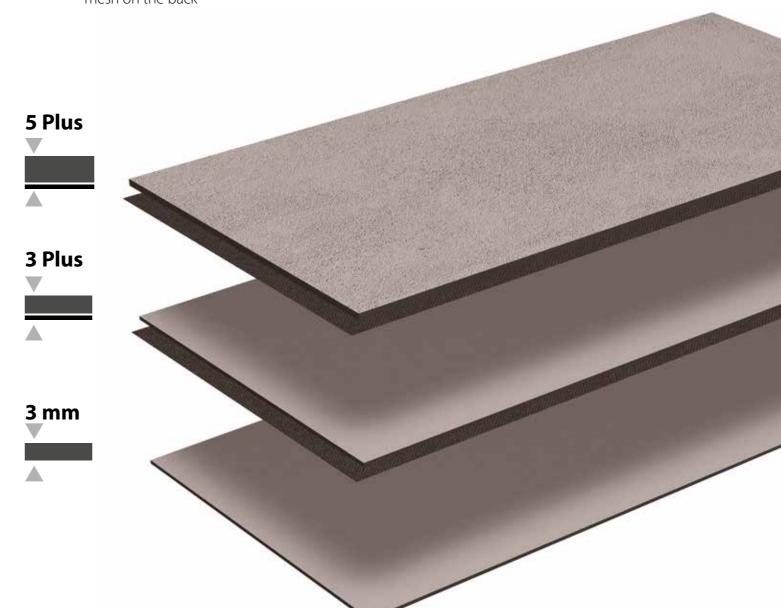
Innovative slabs with a thickness of 5,5 mm reinforced by a fiberglass mesh on the back



New possibilities of installation and new surface's finishes



Outstanding technical performances and original aesthetical solution





The information in this Technical Manual relating to the product is to be intended as official information provided by Panaria. As far as ancillary materials (adhesives, mats, etc.) are concerned, the indications provided are those of the relative manufacturers, that guarantee the technical characteristics of their products on the market.

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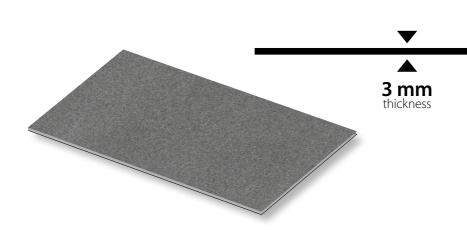
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ZERO.3

1.1 - What is ZERO.3?

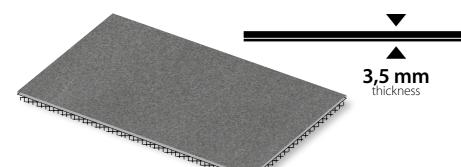
Produced by means of extremely innovative technology, ZERO.3 is manufactured in 300x100 cm slabs, with a thickness of 3 mm, using a porcelain stoneware body composed of top quality raw materials. It is pressed at a force of 15,000 tons. Firing takes place in innovative and ecological kilns that are the result of the research and know-how of Panariagroup. Single slabs of ZERO.3 are only 3 mm or 5 mm thick. this makes them flexible, light and extremely easy to handle. The minimal thickness is the striking feature, which makes the product suitable for a variety of different applications.

1.2 - Available types: ZERO.3, ZERO.3 - 3 Plus, ZERO.3 - 5 Plus



ZERO.3

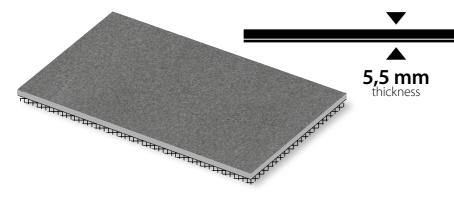
Laminated porcelain stoneware slabs with a thickness of 3 mm, in sizes up to 300x100 cm.



ZERO.3 - 3 Plus

With fibreglass mesh reinforcement

Laminated porcelain stoneware slabs with a thickness of 3.5 mm, with fibreglass mesh on rear side, in sizes up to 300x100 cm.



ZERO.3 - 5 Plus

With fibreglass mesh reinforcement

Laminated porcelain stoneware slabs with a thickness of 5,5 mm, with fibreglass mesh on rear side, in sizes up to 300x100 cm. Suitable also for floor tiles applications in intensive commercial environments with the exception of areas subject to heavy concentrated loads (e.g. trolleys with hard wheels).



ZERO.3 Panaria > ZERO.3 Technical Manual

ZERO.3 - 3mm, ZERO.3 - 3 Plus, ZERO.3 - 5 Plus: which and why? (*)

		WALL INSTALLATION For NEW BUILDINGS and REFURBISHING, for installation on pre-existing walls.	ZERO.3 3mm	ZERO.3 3 Plus	ZERO.3 5 Plus
late	riors	Any residential and commercial environment, in situations where holes and/or cuts are not necessary.	•	•	•
inte	nors	Any residential and commercial environment, in situations where holes and/or cuts are necessary.	1	•	•
§ 4	eriors	In situations where holes and/or cuts are not necessary and with sizes up to 100 x 100 cm.	•	•	•
	HIOIS	In situations where holes and/or cuts are necessary and/or for large sizes.	-	•	•
		FLOOR INSTALLATION For NEW BUILDINGS and REFURBISHING, for installation on pre-existing floors.	ZERO.3 3 mm	ZERO.3 3 Plus	ZERO.3 5 Plus
		Residential (kitchens, bathrooms, living rooms, common apartment block areas and any other residential environment).	-	•	•
Inte	riors	ht commercial (offices, offices open to the heral public, waiting rooms, shops, bathrooms, saurant dining rooms, car showrooms, bars, emas, surgeries/clinics).	-	•	•
		Intensive commercial common areas of shopping centres, hotel halls, canteens, fast food restaurants, dance clubs, hospitals) with the exception of areas subject to heavy concentrated loads (e.g. trolleys with hard wheels).	-	-	•
Exteriors		Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally impervious. The use of sizes that are not larger than 50x50 cm is recommended.	-	•	•
SPECIAL USE	s		ZERO.3 3 mm	ZERO.3 3 Plus	ZERO.3 5 Plus
• Vent	ilated facades		-	•	•
Ther syste	rmal insulation ems	Depending on project specifications and in combination with the construction systems	•(•)	•	•
	and swimming tiling	recommended by Panariagroup and approved by the Installation Supervisor.	-	•	•
For f surfa	urniture aces		•	•	•

- (*) In situations where holes and/or cuts are not necessary and with sizes up to 100x100 cm.
- (*) Products with special finishes can have limitations depending on their area of application. Refer to specific collection catalogues.



Working with ZERO.3 - 3 mm, ZERO.3 - 3 Plus and ZERO.3 - 5 Plus

3.1 - Handling

Owing to their lightness, all types of ZERO.3 are much easier to handle and transport than slabs of marble, granite and natural stone, which are much thicker and therefore much heavier. With an identical weight, the number of square metres transported is four times greater. The weight of a 100x100 cm slab is approximately 7,4 kg for the ZERO.3 - 3 mm, 7,8 kg for ZERO.3 - 3 Plus and 11,5 kg for ZERO.3 - 5 Plus. When handling, the use of gloves is recommended.

HANDLING WHOLE SLABS (300x100 cm) OF ZERO.3 - 3 MM, ZERO.3 - 3 PLUS AND ZERO.3 - 5 PLUS



Fig.1 - All types of 300x100 cm slabs of ZERO.3 can be lifted by one person only. Lift the slab with open hands. Slowly raise the longer side so as to eliminate the suction effect, due to contact with the underlying slab, and ensure a good grip.



Fig.2 - You can now guide the slab to its upright position, keeping it as straight as possible.



Fig.3 - When the slab is upright, hold it from its top edge and shift it keeping it straight and upright. This operation should be performed with the aid of a second person.

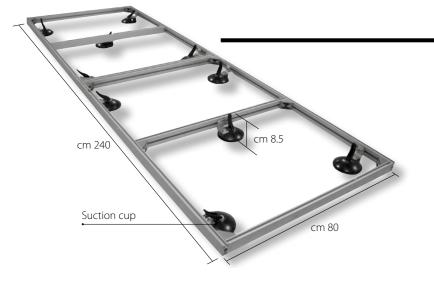




Fig.4/5 - All versions of ZERO.3 slabs, of size 300x100 cm, can be handled by two persons, using a special frame. Fasten the frame to the slab when it is still on the pallet. Now raise the frame and slab to eliminate the suction effect.



Owing to their lightness, all types of ZERO.3 are much easier to handle and transport than slabs of marble, granite and natural stone, which are much thicker and therefore much heavier.



The frame

To safely handle slabs of ZERO.3, of various types and in the 300x100 cm size, a special frame is available upon demand. It is made of aluminium and features suction cups. It is ideal for installing on scaffolding at a height of over 2 metres.

STORAGE OF WHOLE SLABS (300x100 cm)

All versions of ZERO.3 slabs (300x100 cm) can be stored either in vertical or horizontal position. If you place one slab on top of the other, make sure that each slab is clean and that the surface the slabs are resting on is flat.

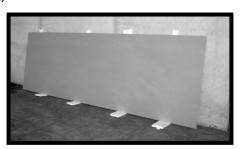


Fig.6 - As concerns the upright position, place the long side of the slab on a wooden plank.

HANDLING PACKAGES CONTAINING 300x100 cm

Lifting and handling palletised packages with forklift trucks:



Fig.7 - To take on pallets from their long side, position the forks at a distance of at least 1 metre the one from the other, perpendicular to the long side of the pallet and at the centre of the latter. Forks must be supporting the entire surface of the pallet.



Fig.8 - To take on pallets from their short side (e.g. when unloading containers), you must use forks with a length of at least 2,5 metres to guarantee a sufficiently long supporting surface and therefore protection of the package and its contents.

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3.2 - Drilling, cutting and edge-finishing

A striking feature of ZERO.3 is its extreme ease-of-installation: this material can be easily cut, shaped and drilled both by tile layers and by specialised persons (stone cutters, glass-workers, etc.) using automatic machines and tools for porcelain stoneware, glass and marble. For manual operations and when using mechanical tools (such as for instance angle grinders, drills, cutters and electrical drills), it is recommended to wear gloves, masks for protection against dust and goggles.



If you have to drill holes for pipes or perform cuts for switch boxes or other items, you must choose ZERO.3 - 3 Plus or ZERO.3 - 5 Plus.

3.2.1 - Manual processing

PREPARATION

It is essential to work on a flat and clean surface; you can use the cover of the pallet of the 300x100 cm.

CUTTING WITH A GLASS CUTTER OR MANUAL TILE CUTTER

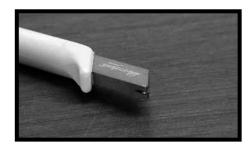


Fig. 9 - You can obtain excellent results in terms of shape and clear cuts by engraving all versions of ZERO.3 with Silberschnitt 2000 special glass cutters made by **Bohle Italia** or with the manual tile cutter made by **Würth**. To achieve good cuts, never detach the glass cutter from the slab throughout the entire cutting operation.



Fig.10 - Io ensure that the engraving is as straight as possible, you may use aluminium levelling rods of the type commonly used by brick layers.



Fig.10 - To ensure that the engraving is as straight as possible, you may use aluminbend the slab to detach the two pieces.



Fig.12 - As far as ZERO.3 - 3 Plus and ZERO.3 - 5 Plus are concerned, after engraving the ceramic part and splitting the slab, complete the operation by cutting the fibre-glass mesh with a standard cutter.



Fig.13 - A practical tool for cutting is the tile cutter ruler (for instance Keracut from **Sigma** or Free-cut from **Raimondi**). As far as ZERO.3 - 3 Plus and ZERO.3 - 5 Plus are concerned, after engraving the ceramic part and splitting the slab, complete the operation by cutting the fibreglass mesh with a standard cutter (**Fig.12**).



Fig.14 - With tile cutter rulers, you can use hand-held angle grinders, fitted into special frames that can be "fit onto" the cutting guide. In this manner, you can provide both 90° and 45° cuts to obtain bevels and jolly pieces.

CUTTING WITH DIAMOND DISCS



Fig. 15 - All versions of ZERO.3 can be cut using diamond discs fitted onto hand-held electrical grinding machines. Disc rotation speed must be high (>10000 RPM) and speed at which tool is pushed low (< 1 m/min). Depending on the type of disc and the length of the cut, it may be necessary to cool the disc with water. Recommended discs are the thin types generally used for cutting porcelain stoneware. The advantages of this type of cut include ease-of-execution and the possibility to cut during installation.

DRILLING



Fig.16 - As far as manual drilling is concerned, use tungsten bits with a diameter up to 10 mm, fitted to electric drills or battery-operated screwdrivers.



use cutting diese fitted to angle grinders electrical

Fig.17/18 - As an alternative, you can use cutting discs fitted to angle grinders, electrical drills or battery-operated screwdrivers.

INTERNAL CUT / L-SHAPED CUT



Fig.19 - To obtain internal and L-shaped corners, round off the vertex of the corner using bits with a radius of at least 5 mm that reduce the risk of breakage. Then cut with diamond discs, taking care to stop moving the cutting tool forward when you reach the hole previously drilled. To drill and cut using diamond discs, follow the instructions provided above.

When using these tools:

- cool the point drilled with water;
- -do not exert too much pressure and bear in mind the resistance of the type of laminated stoneware you are working on;
- if you are using tungsten bits, start drilling at a low speed;
- if you are using drills or screwdrivers, do not select hammering mode.

EDGE-FINISHING



Fig.20 - Edges can be finished by hand using abrasive diamond sponges or emery paper. With a light passage on the side of the slab, you can obtain a slightly rounded-off edge or with repeated passages a bevelled effect.



Fig.21 - The same results can be obtained with sanding discs fitted onto hand-held angle grinders.

3.2.2 - Using automatic machines



If you have to drill holes for pipes or perform cuts for switch boxes or other items, you must choose ZERO.3 - 3 Plus and ZERO.3 - 5 Plus. Irrespective of the system adopted, the underlying surface must be perfectly flat to prevent minor vibration and movements of the slab that could lead to breakage or damage to the finish. It is recommended to use diamond tools for porcelain stoneware, in good working order.

If you have to drill holes for pipes or perform cuts for switch boxes or other items, you must choose ZERO.3 - 3 Plus and ZERO.3 - 5 Plus. To obtain internal corners and L-shaped cuts, round off the edge of the corner using bits with a radius of at least 5 mm that reduce the risk of breakage. It is recommended to perform a few tests before cutting so as to set up the machine in the best manner possible.

Operating parameters provided in this guide are to be considered as **indicative** and must be perfected and checked by the user based on the material used and the operations to perform.

ENGRAVING



Fig.22 - All types of ZERO.3 can be cut by engraving. This operation must be performed on a cutting bench and on the front face of the slab. As far as ZERO.3 - 3 Plus and ZERO.3 - 5 Plus are concerned, if this operation cannot be performed automatically on a cutting bench, the fibreglass mesh must be cut by hand with a cutter. Move the cutting tool forward at a speed of 10 m/min. and in any case at a suitable speed for the finish and colour of the slab. Apply an average pressure of about 1,2 bar. For slabs with light colours, you must exert a pressure of about 1,5 bar.

CUTTING WITH A DISC



Fig.23 - All versions of ZERO.3 can be cut with diamond discs. Use discs made especially for porcelain stoneware and in good working order. Disc rotation speed must be high (>2000 RPM) and speed at which tool is pushed low (from 0,5 to 1 m/min.) Depending on the type of disc and the length of the cut, it may be necessary to cool the disc with water

Reduce speed at the start and and the end of the cut.

CUTTING WITH CNC MACHINES



Fig.24 - All versions of ZERO.3 can be cut with CNC machines. Cutter rotation speed ranges from 12000 to 18000 RPM. The cutter must be pushed forward at a speed ranging from 0,5 to 1 m/min.

CUTTING WITH A WATER JET MACHINE



Fig.25 - All versions of ZERO.3 can be cut with water jet cutting machines. Adopt a speed ranging from 2 to 3 m/min.

DRILLING WITH A NUMERIC CONTROL MACHINE



Fig.26 - All versions of ZERO.3 can be drilled with numeric control machines. Drill a preliminary hole using a diamond drill bit. If necessary, use a cutter to enlarge the hole to the requested size. Use a bit with a diameter ranging from 4 to 8 mm. Operating speed is 40 mm/min. with spindle rotation of 900 RPM. When using these tools: cool the point drilled with water; start drilling at a low speed; never exert too much pressure and bear in mind the resistance of the type of ZERO.3 you are working on.

DRILLING WITH A WATER JET MACHINE



Fig.27 - All versions of ZERO.3 can be drilled with water jet cutting machines. With water jet machines, you can obtain holes with a smaller diameter with respect to those possible with a numeric control machine. Operating speed must range from 2 to 3 m/min.

EDGE POLISHING



Fig.28 - To shape and polish the edge of the slab, use diamond/abrasive discs, which are suitable for obtaining an edge of the shape and size requested. Then use a polishing disc. Different discs are available for obtaining different edge finishes. Operating speed must be tested beforehand.

45° CUT



Fig.29 - To obtain 45° cuts, use 45° diamond discs. In this manner, you can join two slabs of ZERO.3 to create a corner. The corner must be bevelled. Different discs are available for obtaining a variety of edge finishes. Operating speed must be tested beforehand.

BEVELLING

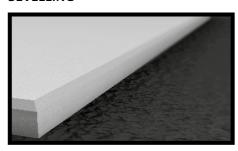


Fig.30 - All versions of ZERO.3 can be bevelled. To obtain curved edges, use a numeric control machine with a 5-axis disc. Different discs are available for obtaining a variety of edge finishes. Operating speed must be tested beforehand.

Installing ZERO.3 - 3 mm, ZERO.3 - 3 Plus and ZERO.3 - 5 Plus

In the same manner as all building materials, ZERO.3 works in combination with other materials. **For this reason, it is essential to:**- define the characteristics of the support on which slabs will be installed (see "4.1 - **Preparing the support**");

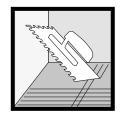
- choose an adhesive that is suitable for the support and intended use (see "4.2 **Recommended adhesives"**);
- lay ZERO.3 on the support in the correct manner (see "4.3 Installation instructions").
- If the requirements of these three points are fulfilled, ZERO.3 will offer all the best of its unique characteristics.

4.1 - Preparing the support

4.1.1 - Supporting material: requirements

Irrespective of whether you are installing on walls or on floors, the support **must** have the characteristics described in detail below. Verifying and checking these conditions is at the care of the engineer and of the persons performing installation work.

■ COMPACT



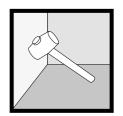


Fig.31/32 - Make sure that the support is compact both in terms of surface and structure. Check compactness of surface by tracing (engraving) a grid on the support with the edge of a trowel or with a steel nail. A support can be considered as compact if it does **not** crumble or pulverise in the point where the lines of the grid intersect. Check compactness of the structure by tapping on the surface with a 750 g mallet: **no** marks should form and the sound heard when tapping must not be hollow. The presence of layers or areas with a more brittle consistence means that mechanical characteristics are poor and may cause breakage or dislodging of slabs.

■ DRY

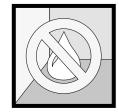


Fig.33 - This test can be performed using a hygrometer for building materials. For cement-based screeds, a moisture content of less than 2% before installation is acceptable. As far as anhydrite screeds are concerned, the moisture content must be lower than 0,5%.

■ FLAT

■ CLEAN

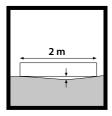


Fig.34 - Flatness checking is performed using a levelling rod with a length of at least 2 metres. Place the rod on the slab in all directions. The permissible tolerance is 2 mm.

■ STABLE OVER TIME

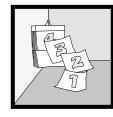


Fig.35 - The support must have suitable features for the intended use and must remain stable over time.

Fig.36 - The support must be clean. Dust, oil, grease, dirt and debris must be removed as they may compromise adhesion of the adhesive.

■ NO CRACKS



Fig.37 - In cement-based screeds, the presence of cracks due to hygrometric shrinkage is caused by one or more of the following factors: too much water in the mixture, too fine a grain size of the aggregates, too much cement. Before installation, seal any cracks and holes.

When installing on cement-based floors, the use of self-levelling products, such as **Mapei's** Ultraplan, guarantees all conditions described above. Use the product in accordance to the manufacturer's instructions.

4.1.2 - Supporting material: special instructions for installation on pre-existing walls/floors

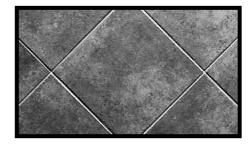
For installation on pre-existing walls / floors, apart from the features described in § "4.1.1 - **Supporting material: requirements"**, also take into account the following indications:

INSTALLATION ON WOOD



Fig.38 - Make sure that the supporting material is sound and firmly fixed. Remove all residues of oil, paint, grease and wax by sandpapering the surface.

INSTALLATION ON OLD CERAMIC TILE, COTTO, STONE, MARBLE, PVC



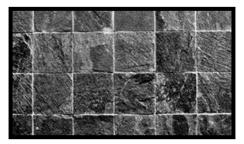


Fig.39/40 - Make sure that the supporting material is sound and firmly fixed. Eliminate any residues of oil, grease or wax by washing with a solution of water and caustic soda followed by thorough rinsing. If chemical cleaning is not possible, adopt mechanical abrasion techniques.

INSTALLATION ON METAL

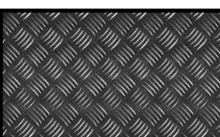


Fig.41 - Make sure that the supporting material is sound and firmly fixed. All residues of oil, grease, wax and paint must be removed by means of mechanical abrasion systems. After cleaning, remove all residues with particular care.

4.1.3 - Supporting material: special instructions for installation on exterior plaster walls

For installation on exterior plast, apart from the features described in § "4.1.1 - **Supporting material: requirements**", also take into account the following indications:



Fig.42 - For wall installation on exterior plaster, ZERO.3 - 3 Plus and ZERO.3 - 5 Plus must be glued onto a support with a high performance, which resists mechanical stress, such as structural movements, the weight of tiles, any thermal expansion and atmospheric agents. In this case, we recommend plaster such as KR100 from **Fassa Bortolo** or BF02 from **Grigolin**, or plaster with the same characteristics and with an average adhesion capacity to brick of at least 1 N/mm2 (approx. 10 kg/cm2). In correspondence with the edges of doors, windows, etc., it is recommended to apply on plaster strips of mesh, such as Mapegrid G 120 from **Mapei**, positioned at 45°.

During installation, pay attention to stringcourses and structural joints.

04

4.1.4 - Supporting material: instructions for installation on mats used for decoulping, soundproofing etc.

Direct installation on the following products has been checked in the conditions described below. For each of the following systems, follow the manufacturer's instructions and perform work in accordance to "best practice". After installing the system, make sure that the support on which the slabs will be laid has the features described in paragraph "4.1.1 - Supporting material: requirements".

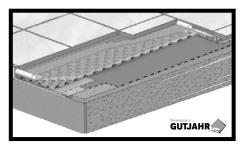


Fig.43 - Watec ® Drain Kp from Gutjahr ®

This is an uncoupling and draining cushioning material. It is used:

- as drainage system for loggias, balconies and bathrooms;
- as uncoupling element in closed environments, such as: critical substrates (existing floors, different materials, etc.); screeds with a high content of calcium sulphate; heated floors; wooden supports and dry screeds.

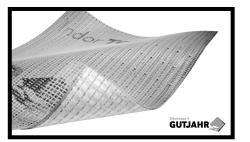


Fig.44 - IndorTec ® 2E-PZ made by Gutjahr ®

This is a highly resistant uncoupling system with a reinforced mesh. This product must be glued to the support. It is therefore possible to proceed with tile installation. It can be used in closed environments:

- critical substrates (existing floors, different materials, etc.);
- fresh, still damp cement screeds;
- heated floors;
- wooden substrates and dry screeds.

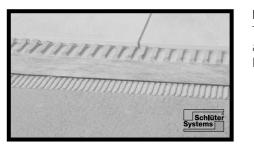


Fig.45 - Schlueter® - DITRA SOUND made by Schlueter Systems®

This is an impact sound insulating mat, made of high density polyethylene, which is suitable for installation with adhesive under ceramic coverings. It has an anchoring fleece laminated on both sides to effectively bond with the tile adhesive.

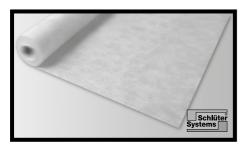


Fig.46 - Schlueter® - KERDI by Schlueter Systems®

This material is a 0,2 mm thick polyethylene membrane, which is elastic and waterproofing. It can be installed with adhesive under ceramic wall and floor tiles in bathrooms, showers, etc. The 0,5 mm version also acts as vapour barrier.

ONLY FOR ZERO.3 - 5 PLUS

Thanks to its physical and mechanical characteristics, ZERO.3 - 5 Plus can also be used with different types of mat.

Direct installation on the following products has been checked in the conditions described below. For each of the following systems, follow the manufacturer's instructions and perform work in accordance to "best practice". After installing the system, make sure that the support on which the slabs will be laid has the features described in paragraph "4.1.1 - Supporting material: requirements".



Fig.47 - Schlueter® - DITRA 25 made by Schlueter Systems®

This is a polyethylene membrane for uncoupling, waterproofing and allows release of pressure caused by vapour. Main applications:

- in interiors, for preventing cracks in floors, even when large slabs are used;
- on heated screeds for even diffusion of heat;
- as waterproofing system for loggias, covered balconies and bathrooms.

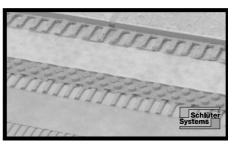


Fig.48 - Schlueter® - DITRA DRAIN 4 by Schlueter Systems®

This material is a polyethylene membrane consisting of webbing and permeable fabric. It is a passive capillary drainage system and uncoupling system between substrate and ceramic floor. Main applications:

- in interiors, for preventing cracks in floors, even when large slabs are used;
- on heated screeds for even diffusion of heat;
- as integration for waterproofing system for loggias, balconies and bathrooms.



Fig.49 - Mapetex System by Mapei®

This is a removable system, which preserves integrity of the floor underneath.

The system consists of a special non-woven fabric (Mapetex), which is used in combination with adhesive strips (Mapetex-Strip) to create a support for the installation of floors to be easily removed.

Mapetex can also be used as an isolating and anti-fracture membrane, limiting the damage that could be caused to the flooring by micro-cracks in the supproting element.

4.1.5 - Supporting material: instructions for self-supporting panels

Direct installation on the following products has been checked in the conditions described below. For each of the following systems, follow the manufacturer's instructions and perform work in accordance to "best practice". After installing the system, make sure that the support on which the slabs will be laid has the features described in paragraph "4.1.1 - Supporting material: requirements".



These self-supporting panels (such as for instance **Fig.50** - **WEDI®** building panels and **Fig.51** - **Schlueter®** - **KERDI BOARD by Schlueter Systems®**) can be used:

- as supporting material for ceramic tile;
- as substrate for installation of ceramic tile;
- for protection against humidity;
- as effective heat insulating material;
- for design purposes.



Panels can be used in interior environments at a normal temperature. For information about special uses (e.g. swimming pools, refrigerated rooms, exteriors, etc.), contact the manufacturer of the panel.

()4

4.1.6 - Supporting material: instructions for special construction systems

Installation is also possible on **construction systems** upon condition that these are installed in accordance to "best practice" and the manufacturer's instructions and that the support has the characteristics described in paragraph "4.1.1 - **Supporting material: requirements**":

INSTALLATION ON FIBRE CEMENT PANEL SYSTEMS (BACKER BOARD)

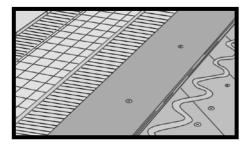


Fig.52 - This system consists of cement-based panels enclosed within two layers of fibre-glass mesh, to be installed both on walls and on floors, secured either mechanically or chemically to the underlying structure. When preparing this support, strictly follow the manufacturer's instructions. Make sure that the points of contact between support and slab are filled with adhesive and that there is an overlying layer of fibreglass mesh submerged in the adhesive used for installation. This will ensure a support without cracks. After installing the system, make sure that the support on which the slabs will be laid has the features described in paragraph "4.1.1 - **Supporting material: requirements**".

INSTALLATION ON SUSPENDED TIMBER FLOORS

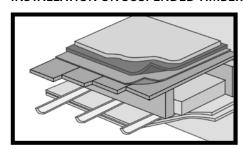


Fig.53 - This construction system consists of a floor made of wooden planks secured by means of nails to a lattice of stringers. Installation of this construction system is similar to **installation on wood - Fig.38**: follow the instructions provided.

INSTALLATION ON SUSPENDED SUPPORTS (E.G. GIFAFLOOR FHBPLUS BY KNAUF)

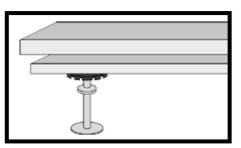


Fig.54 - This system consists of gypsum fibreboard panels resting on steel supports with an adjustable height. When preparing this system, strictly follow the manufacturer's instructions. Make sure that the points of contact between support and slab are filled with adhesive. This will ensure a support without cracks. After installing the system, make sure that the support on which the slabs will be laid has the features described in paragraph "4.1.1 - **Supporting material: requirements**". Application of a primer before the tile adhesive must be decided upon by the manufacturer of the adhesive you intend to use.

INSTALLATION ON ELECTRICAL HEATING SYSTEMS

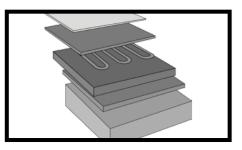


Fig.55 - An evolution of the classical heating system where the radiant element is embedded in the screed. This system consists in installing the radiant element beneath the tiles or rather in the adhesive used for installation of ZERO.3 or under a layer of self-levelling material. This type of system can be installed directly on a screed or existing floor. A layer of insulating material may be installed in between. Irrespective of the number and type of layers, after the adhesive or self-levelling material has undergone seasoning, you must make sure that the support has the features described in detail in paragraph "4.1.1 - **Supporting material: requirements**".

WALL INSTALLATION ON UNCOUPLING OR MICROVENTILATED CUSHIONING - SYSTEM Cera Vent* BY GUTJAHR *

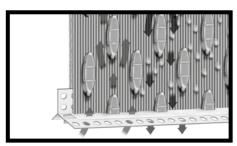


Fig.56 - ZERO.3 - 3 Plus and ZERO.3 - 5 Plus can be installed directly on the Cerα**Vent*** **Gutjahr** * system. This system allows for wall installation (walls featuring salt and rising damp, damaged facades, mixed supports, prefabricated materials, etc.) and offers microventilation and uncoupling from the substrate.

4.1.7 - Supporting material: instructions for installing in accordance to "best practice"

Here below you will find some basic information concerning "best practice" to follow for the most common types of supporting material:

CEMENT-BASED SCREEDS

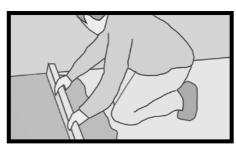


Fig.57 - The curing/seasoning time of cement-based screeds is of essential importance. As far as conventional sand/cement screeds are concerned, this time is about 7/10 days per cm of thickness. If you are using premixed products, such as **Mapei's** Topcem Pronto or **Kerakoll's** Keracem Eco Pronto, follow the instructions of the manufacturer.

General rules for correct construction of a screed:

- aggregates: these must be clean and not contain impure particles. The grain size must be suitable for the thickness of the screed to make;
- levelling strips: these must be made using the same binding agent used for the screed;
- sealing between hardened surfaces and moist mixture: joints between hardened screeds and moist mixture must be made by applying to the end of the hardened screed (clearly cut, perpendicular to the support) adhesion grout, water and binding agent;
- presence of pipelines in the screed: the overlaying layer of mortar must be at least 2.5 cm thick; it is necessary to place, above the pipelines, a metal mesh with a wire thickness of 2 mm so as to provide the necessary reinforcement beneath the thin layer of screed above and prevent the formation of cracks;
- finish: finishing can be performed with a trowel, a steel disc or smoothing tool, paying attention neither to moisten the surface too much nor to work for too long on the same area;
- checking residual moisture: this must be performed after the screed has reached the end of its curing period.

ANHYDRITE SLABS

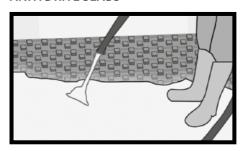


Fig.58 - Follow the instructions of the manufacturer. Before installation, the screed must be sandpapered, dedusted and perfectly dry (the maximum permissible moisture content is 0,5%).

HEATED SCREEDS

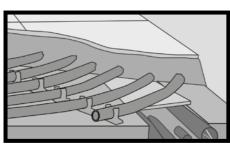


Fig.59 - Before starting the heated floor system, wait at least 14 days after casting the screed. As prescribed by the UNI EN 1264-4 standard, in point 4.4, heating begins at an initial temperature ranging from 20°C to 25°C, which must be maintained for at least 3 days. Then set the maximum permissible design temperature and maintain it for at least 4 days. Once the floor has reached ambient temperature, tile installation can begin.

CONCRETE

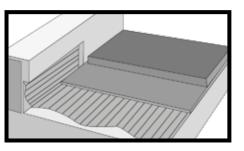


Fig.60 - Concrete must be sufficiently cured (this takes about 6 months or even more, depending on its thickness, composition, thermo-hygrometric requirements, etc.) and must not feature surface treatments such as mould release agents, resin, anti-evaporation treatments, old adhesives, etc. Floor slabs must be insulated against rising damp.

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4.2 - Recommended adhesives

As a general rule that applies for all building materials to be secured in place with adhesive, there is no universal adhesive for installing ZERO.3 on all kinds of surface.

Since it is not possible to describe all possible cases, we have provided information about the most common situations. First of all, we have divided installation cases into "walls" and "floors" and then into "interior" and "exterior". Depending on the rated stress, on any work to be performed subsequently and on the maximum dimension of the slab, we have assigned a certain type of ZERO.3 to each category. Starting from this classification, we have thus examined the most common kinds of supporting material. The resulting chart has been sent to all main manufacturers of adhesives that have, in turn, provided the most suitable product for each category.

Please note that all solutions suggested have been submitted by adhesive manufacturers, who guarantee the indications given. For explanations or more information, contact the respect manufacturers (see "9 - **Useful contacts"**).

It is essential to follow all instructions given by adhesive manufacturers. This applies in particular to waiting time running before a surface can be walked on or grouted and the "Ready to use" time shown in the following tables.

	WALL INSTALLATION (*) For NEW BUILDINGS and REFURBISHING, for installat	WALL INSTALLATION (*) For NEW BUILDINGS and REFURBISHING, for installation on pre-existing walls							
		æ	Two-coat plaster, gypsum plaster, plasterboard, fibre cement panels	Page 38					
	Any residential and commercial environment, in situations where holes and/or cuts are not necessary.	ZERO.3 - 3	Concrete, old ceramic tile, marble, stone	Page 39					
Interiors		ZEI	Particle board, metal	Page 40					
		Plus	Two-coat plaster, gypsum plaster, plasterboard, fibre cement panels	Page 41					
Interiors	Any residential and commercial environment, in situations where holes and/or cuts are necessary.	ZERO.3 - 3 F ZERO.3 - 5 F	Concrete, old ceramic tile, marble, stone	Page 42					
		28 28	Particle board, metal	Page 43					
	In situations where holes and/or cuts are not necessary		Plaster	Page 44					
	and with sizes up to 100 x 100 cm.		Concrete	Page 45					
	In situations where holes and/or cuts are necessary and/ or for large sizes.		Plaster	Page 46					
Exteriors			Concrete	Page 47					
	FLOOR INSTALLATION (*) For NEW BUILDINGS and REFURBISHING, for installat	ion on រុ	ore-existing floors						
	Residential (kitchens, bathrooms, living rooms, common apartment block areas and any other residential environment).		Cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tile, marble slabs, stone	Page 48					
	Light commercial (offices, offices open to the general public, waiting rooms, shops, bathrooms, restaurant dining rooms, car showrooms, bars, cinemas, surgeries/clinics).	ZERO.3 - 3 Plus ZERO.3 - 5 Plus	Wood, PVC, rubber, linoleum, metal, resin	Page 49					
Interiors	Intensive commercial (common areas of shopping centres, hotel halls, canteens, fast food restaurants, dance clubs, hospitals) with the exception of areas	- 5 Plus	Cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tile, marble slabs, stone	Page 48					
subject to heavy concentrated loads (e.g. trolleys with hard wheels).		ZERO.3	Wood, PVC, rubber, linoleum, metal, resin	Page 49					
	Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally impervious.	- 3 Plus - 5 Plus	Cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tile, marble slabs, stone	Page 48					
Exteriors	The use of sizes that are not larger than 50x50 cm is recommended.	ZERO.3 - 3 F ZERO.3 - 5 F	Wood, PVC, rubber, linoleum, metal, resin	Page 49					

(*) Products with special finishes can have limitations depending on their area of application. Refer to specific collection catalogues.

How to read the attachment

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Setting for foot traffic and workability (***)	Ready for use (***)	Installation (*)
01	02	03	04	05	06	07	08	09	10	11

- **01**_ The installation supervisor must examine the conditions of the work site to choose between a normal setting adhesive or a quick setting.
- **02**_ List of adhesive manufacturers.
- **03**_ Depending on the adhesive recommended by the manufacturer, you will find the size in cm of the slab.
- **04**_ List of adhesives recommended by manufacturers based on the intended use and size of slabs.
- **05**_ List of primers to use before adhesive application, as indicated by manufacturers for each intended use.
- **06**_ The mixing ratio refers to a single product unit (a bag, a can, etc.), in order to obtain the characteristics declared by manufacturers.
- 07_ The adhesive's class under the UNI EN 12004 standard is indicated (see Sheet below "About ADHESIVES").
- **08**_ You will find an indication of how many square metres you can install with a single product unit prepared with the established mixing ratio
- **09**_ You will find the time that must pass before treading on the surface to fill joints with grout.
- 10_ You will find the time that must pass before using the floor, i.e. before it can go subject to static and/or dynamic stress.
- 11_ You will find the installation method and features of the trowel to use for each adhesive.

About ADHESIVES

Adhesives are divided into THREE CLASSES, depending on their composition, as established by the UNI EN 12004 standard:

CEMENTITIOUS (C): mixture of hydraulic binding agents, aggregates and organic additives (note to be mixed with water or other liquid additive immediately before use)

REACTIVE (R): mixture of synthetic resin, mineral fillers and organic additives, which harden due to a chemical reaction (note: these adhesives may have one or more components)

DISPERSION (D): mixture of binding and organic agents, namely polymers in aqueous dispersion, organic additives and mineral fillers (note: ready-to-use mixtures)

Depending on their features, adhesives are thus classified:

Class 1: normal setting

Class 2: improved setting properties

There are three additional classes:

Class F: quick setting adhesives

Class T: slip resistant adhesives

Class **E**: adhesives with extended open time

There is a fourth additional class for cementitious adhesives only: adhesives can be classified as DEFORMABLE (S) and divided on the basis of test results under the UNI EN 12002 standard:

Class **\$1**: deformable adhesives

Class **S2**: highly deformable adhesives

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This method refers only to adhesives that

bear the indication "single-layer" in the "4.2 - Recommended adhesives" section. Spread the adhesive full-bed on the surface to cover (Fig.61/62), using a trowel with the features

indicated in the "4.2 - Recommended adhe-

Apply adhesive with the double-layer tech-

nique i.e. by spreading the adhesive full-

bed on the surface to cover (Fig.61/62),

using a notched trowel with tilted teeth at

a distance of 6 mm the one from the other

Also apply the adhesive on the under side

of the slab, using a trowel with 3 mm teeth (Fig.63). When installing on floors, remem-

ber to spread adhesive around the edge of

After laying the slab, make sure it is firmly

adhering to the underlying surface to prevent gaps and air bubbles forming. For this

purpose, you can use rubber coated trowels (e.g. Raimondi "142G" Fig.65) for wall or for floor installation, or electrical tile tap-

ping tools with plastic plates (e.g. Raimondi "Cucciolo" Fig.66) for floor installation.

(e.g. Raimondi item n°138HFV6).

the slab (Fig.64).

sives" section.

4.3 - Instructions for installation

4.3.1 - Adhesives: single-layer method / double-layer method

The installation technique and type of trowel to use depend basically on the type of adhesive used. This information can be found in the "4.2 - Recommended adhesives" section. Depending on the intended use and on the type of adhesive used, all versions of ZERO.3 can be installed both with a single-layer of adhesive or with the "double-layer" technique. In all cases, follow the indications below and make sure that support and slab are entirely coated with adhesive.

SINGLE-LAYER METHOD



Fig.61 - Wall installation

DOUBLE-LAYER METHOD



Fig. 63

Fig.62 - Floor installation

Fig. 64

BOTH FOR THE SINGLE-LAYER AND DOUBLE-LAYER METHOD



Fig. 66



4.3.2 - Laying the slab

Being extremely light, slabs are easy to

300x100 slabs:

Fig. 65



Fig.67 - 1 - To handle slabs, raise them to their upright position, whilst grasping them from the top edge. Move the slabs keeping them straight and with the aid of another person.

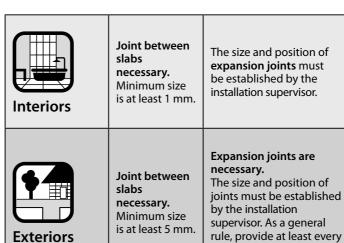


Fig.68 - 2 - Rest the slab on its long side and guide it towards the floor.

4.3.3 - Grouting and expansion joints

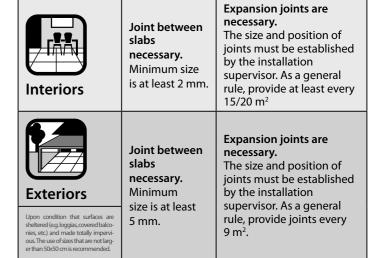
ZERO.3 has an expansion coefficient equal to 7,0x10⁻⁶ °C⁻¹ (i.e. for a temperature range of 70°C, expansion is 0,5 mm per linear metre). Despite expansion being minimal, it is however necessary to install all types of ZERO.3, both for walls and floors, in compliance with the following instructions:





9 m².





FURTHERMORE:







Wall installation Floor installation

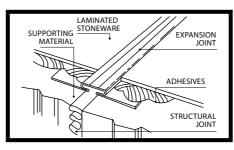


Fig.69 - In correspondence with a structural joint in the screed, it is mandatory to provide an expansion joint with a width that is at least the size of the existing one.

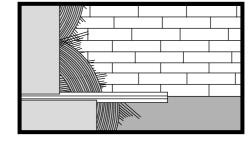


Fig.70 - If there are joints between surfaces of different types (e.g. reinforced concrete and bricks), it is mandatory to provide an expansion joint.

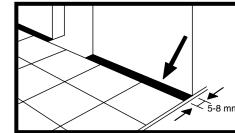


Fig.71 - Around fixed elements of the supporting surface, such as walls, steps, columns, etc., it is mandatory to provide 5-8 mm peripheral joints.

For suggestions on the type of joint to use, see "6 - Connecting profiles, finishing and trim pieces". Please also remember that expansion joints can be made using silicone products.



Cleaning and care

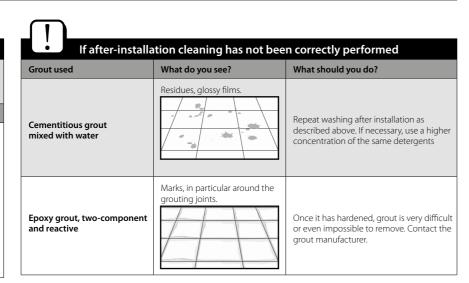
■ CLEANING AFTER INSTALLATION

Cleaning "after installation" is necessary for removing residues of grout, cement and mortar. This operation is mandatory after installation both for glazed and unglazed tiles. Never clean tiles that are too hot (e.g. exposed to sunlight during hot summer months) since the action of aggressive chemicals may become harsher. In Summer, clean during the cooler hours of the day.

Non-slip surfaces: due to their particular, non-slip, rough or structured textures, these surfaces are more difficult to clean. Therefore pay particular attention to cleaning methods, in particular clean sooner and use motorised brushes with white and beige discs.

Grout used	When to clean	What to use	Methods of use
Cementitious grout mixed with water	After 4/5 days and within 10 days from grouting	Acid-based detergents (see "List of acid-based detergents")	Follow the instructions of the detergent manufacturer. Test the product before actual use. This applies in particular to lapped or polished products. Before washing, surfaces to clean must be soaked in water. After washing, soak up any liquid (if possible using a vacuum cleaner for liquid) and rinse thoroughly and several times with water. Soak up any remaining rinsing water with a vacuum cleaner for water or a cloth.
Epoxy grout, two-component and reactive	Immediately	Follow the instructions of the grout manufacturer.	This type of product must be removed immediately and accurately since these grouts harden very rapidly, even in just a few minutes. Strictly follow the cleaning methods recommended by the grout manufacturer and check if it is effective (also against light) by performing a cleaning test before grouting the entire floor/wall.

List of acid-based detergents Follow the instructions given on the package. Test the product before actual use. This applies in particular to lapped or polished products. Keranet Mapei Deltaplus Kerakoll Cement Remove Faberchimica Deterdek Kiter Lithofin Zementschleierentferner HMK R63 НМК Solvacid Geal Litoclean Plus Litokol CPClean **CPSystems CPSystems** CPDecon (*) (*) especially made for materials that are not acid-resistan



■ PROTECTIVE AGENTS FOR GROUTING JOINTS

These are used to reduce porosity and therefore make cementitious grout more resistant to stains. Use of protective agents can make cleaning easier. Follow the instructions given on the package. Test the product before actual use. This applies in particular to lapped or polished products.

Grout used	Product name	Manufacturer	Methods of use
Cementitious grout mixed with water	Fugaproof KF Fugenschutz	Fila Lithofin	Follow the manufacturer's instructions

■ NON-SLIP TREATMENT

Non-slip properties of installed floors (glazed or unglazed) can be improved using specific products. Follow the instructions given on the package. Before application on an installed floor, test the product on a loose tile. The longer you leave the product on the tile, the more you increase non-slip properties. However, this can whiten the tiles a little and make cleaning a little more difficult.

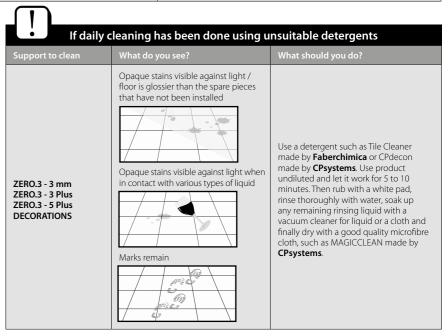
Product name	Manufacturer	Methods of use	Maintenance
CPGRIP	CPSystems	Follow the manufacturer's instructions	CPMAIN, CPSystems Follow the manufacturer's instructions

■ DAILY CLEANING

Use warm water and a good quality microfibre cloth, such as MAGICCLEAN made by **CPsystems**. Every now and again, for instance every 10-20 days and depending on the condition of the floor, use neutral detergents diluted in **plenty** of warm water. Detergents should not contain wax or leave glossy stains. Dry with a good quality microfibre cloth. After washing, rinse accurately with water; dry using another good quality microfibre cloth, such as MAGICCLEAN made by **CPsystems**.

Support to clean	What to use	Methods of use
ZERO.3 - 3 mm ZERO.3 - 3 Plus ZERO.3 - 5 Plus DECORATIONS	Neutral detergent without wax (see "List of detergents). NEVER use alcohol, acid, solvents, abrasive detergents, abrasive sponges or pads.	Diluted in plenty of warm water. Rinse thoroughly after washing. For all operations (washing, rinsing and drying), use good quality microfibre cloths.

Follow the instructions given on the package. Test the product before actual use. This applies in particular to lapped or polished products. Name of detergent Floor Cleaner Fila Cleaner Pflegereiniger HMK P15 CPmain Plus (*) (*) NEVER use to clean DECORATED pieces



■ EXTRA-DUTY CLEANING

Support to clean	Type of dirt	What to use	Methods of use	Name of detergent	Manufacturer
	Coffee, Coca Cola®, fruit juice	Alkaline-based detergent	Follow the instructions of the detergent manufacturer.	Coloured stain remover PS87	Faberchimica Fila
	Grease, dust from foot traffic, deep- down cleaning	Alkaline-based detergent	Follow the instructions of the detergent manufacturer.	PS87 Litonet Intensivreiniger HMK R55 Taski R20-strip CPmain, CPdecon	Fila Litokol Lithofin HMK Johnsondiversey CPsystems
	Wine	Oxidising detergent	Follow the instructions of the detergent manufacturer.	Oxidant	Faberchimica
	Lime residues	Acid-based detergents	Follow the instructions of the detergent manufacturer. Test the product before actual use. This applies in particular to lapped or polished products.	Viakal	Procter & Gamble
ZERO.3 - 3 mm ZERO.3 - 3 Plus ZERO.3 - 5 Plus	Rust	Acid-based detergents	Dilute the product and apply on the stain. Allow to work for 10/20 minutes then rinse thoroughly. If necessary repeat. Test the product before actual use. This applies in particular to lapped or polished products.	Diluted muriatic acid	(various makers)
	Tyre marks, pencil marks and metal marks	Abrasive paste	Follow the instructions of the detergent manufacturer. Test the product before actual use. This applies in particular to lapped or polished products.	Polishing cream Vim clorex Detergum (*) (*) DO NOT use on lapped or polished products.	Faberchimica Guaber Zep Italia
	Ink, marker	Solvent-based detergent	Solvents should be applied undiluted on the stain. Let them work for about 15/30 seconds. If necessary repeat. As far as "Coloured stain remover" is concerned, follow the manufacturer's instructions.	Nitro thinner 1,2-dichloroethylene Turpentine Coloured stain remover	(various makers) (various makers) (various makers) Faberchimica
	Dirt from grout	Detergent for grout	Follow the instructions of the detergent manufacturer.	Fuganet Fugenreiniger	Fila Lithofin
DECORATIONS	Any	Neutral, wax-free detergent	Use water and a neutral, wax-free detergent. NEVER use alcohol, acid, solvents, abrasive detergents, abrasive sponges or pads.	Floor Cleaner Fila Cleaner Pflegereiniger HMK P15 CPmain Plus	Faberchimica Fila Lithofin HMK CPsystems



Connecting profiles, finishing and trim pieces



You can complete all versions of ZERO.3 walls and floors with the profiles available on the market.

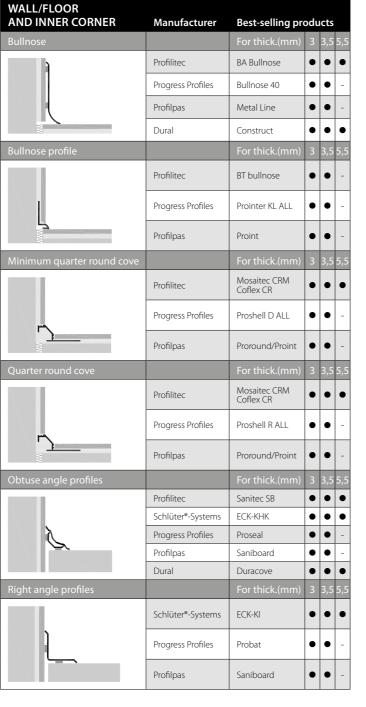
Here below you will find some possible solutions using the profiles sold by the main manufacturers of the sector. The solutions described have different characteristics and sizes, depending on the manufacturer, and cannot be described in detail herein. The drawings and instructions for use are therefore indicative and of a general nature. For more information and to gain an exhaustive idea of the complete ranges offered, refer to the manufacturer. You will find a list of references in "9 - Useful contacts".

PROFILITEC S.p.A.	www.profilitec.com	
SCHLÜTER-SYSTEMS ITALIA SRL	. www.schlueter.it	
WEDI	www.wedi.it	
RARE	www.rareboxdoccia.com	

PROGRESS PROFILES	www.progressprofiles.com
PROFILPAS	www.profilpas.com
DURAL	www.dural.de/en

PROFILES FOR DOORS AND WORK TOPS	Manufacturer	Best-selling pro	odu	ıcts	
Full profile		For thick.(mm)	3	3,5	5,5
	Profilitec	Planotec BP	•	•	-
	Progress Profiles	Protop	•	•	-
Profiles with tile compartment		For thick.(mm)	3	3,5	5,5
	Progress Profiles	Protect J, T, Q	•	•	-

SHOWER SYSTEMS	Manufacturer	Best-selling pro	odı	ıcts	
Stainless steel grill		For thick.(mm)	3	3,5	5,5
	Profilitec	Drain griglia	•	•	•
	Schlüter®-Systems	Kerdi-Line-H	•	•	•
	Dural	BASIC-LINE	•	•	•
	Progress Profiles	Proshower Design	•	•	•
	Wedi	Plano Linea	•	•	•
	Profilpas	Drain Invisible	•	•	•
	Rare	Ad Hoc	•	•	•
Grill with tile compartment		For thick.(mm)	3	3,5	5,5
	Schlüter®-Systems	Kerdi-Line-D	•	•	•
	Dural	TI-LINE	•	•	•
	Progress Profiles	Proshower Tile	•	•	•
	Wedi	Riolito piastrellabile	•	•	•
	Rare	Ad Hoc	•	•	•
Shower base system		For thick.(mm)	3	3,5	5,5
	Schlüter®-Systems	Kerdi-Shower	•	•	•
	Dural	TILUX	•	•	•
	Wedi	Fundo Primo / Plano	•	•	•
	Rare	Ad Hoc	•	•	•



EXPANSION JOINTS	Manufacturer	Best-selling products
Floor joints	Mailulacturei	For thick.(mm) 3 3,5 5,5
	Profilitec	Coflex CAJ Coflex CA
	Schlüter®-Systems	Dilex-BWS ● ●
	Progress Profiles	Proflex • • •
	Profilpas	Projoint DIL • • -
8000	Dural	Duraflex • • •
Perimeter joints		For thick.(mm) 3 3,5 5,5
	Profilitec	Coflex CAJP ● ●
	Schlüter®-Systems	Dilex-BWA ● ● ●
	Progress Profiles	Proflex 5 PR ● ●
	Profilpas	Projoint DIL • •
	Dural	Durafley SE

SURMOUNTED ELEMENTS AND COVERING PROFILES	Manufacturer	Best-selling pro	odı	ıcts	
Connection		For thick.(mm)	3	3,5	5,5
	Profilitec	Roundjolly RJ	•	•	•
	Schlüter®-Systems	Reno-U	•	•	•
	Progress Profiles	Proslider KL ALL	•	•	-
	Profilpas	Pronivel	•	•	-
Surmounted element		For thick.(mm)	3	3,5	5,5
	Profilitec	Linotec Variotec DK	•	•	•
	Schlüter®-Systems	Reno-T	•	•	•
	Progress Profiles	Profloor 24	•	•	-
	Profilpas	Prolevel	•	•	-
	Dural	LPTE	•	•	•
Straight edge covering profile		For thick.(mm)	3	3,5	5,5
	Profilitec	Squarejolly SJ	•	•	•
	Schlüter®-Systems	Quadec	•	•	ullet
	Progress Profiles	Projolly Square	•	•	•
	Profilpas	Proangle Q	•	•	•
	Dural	Squareline	•	•	•
Rounded edge covering profile		For thick.(mm)	3	3,5	5,5
	Profilitec	Roundjolly RJ	•	•	•
2	Schlüter®-Systems	Rondec	•	•	•
	Progress Profiles	Projolly Quart	•	•	•
	Profilpas	Protrim	•	•	-

CURVED PROFILES	Manufacturer	Best-selling products			
Metal profile for curves		For thick.(mm)	3	3,5	5,5
	Profilitec	Curveline	•	•	•
	Schlüter®-Systems	Schiene	•	•	•
Thursday.	Progress Profiles	Curve	•	•	-
	Profilpas	Proflex Line	•	•	-
	Dural	Z-FLEX	•	•	•

STEPS AND OUTER CORNERS	Manufacturer	Best-selling pro	odı	ıcts	
Profiles for protruding steps		For thick.(mm)	3	3,5	5,5
	Schlüter®-Systems	Rondec	•	•	•
	Progress profiles	Prostyle KL10	•	•	-
	Profilpas	Prostep	•	•	-
Reinforced profiles for steps		For thick.(mm)	3	3,5	5,5
	Schlüter®-Systems	TREP-E	•	•	•
	Profilpas	Prostep SMA	•	•	-
	Dural	Diamondstep	•	•	•
	Progress Profiles	Prostair Acc	•	•	-
	Profilitec	Stairtec FS	•	•	-
Rounded profiles with non-slip tread		For thick.(mm)	3	3,5	5,5
	Profilitec	Stairtec FO	•	•	-
	Schlüter®-Systems	TREP-GK	•	•	•
	Progress Profiles	Prostair KL 20	•	•	-
	Profilpas	Prostep	•	•	-
Rounded profile		For thick.(mm)	3	3,5	5,5
	Profilitec	Roundjolly RJ	•	•	•
D	Schlüter®-Systems	Rondec	•	•	•
	Progress Profiles	Projolly Quart	•	•	•
	Profilpas	Protrim	•	•	-
Straight edge profile		For thick.(mm)	3	3,5	5,5
	Profilitec	Squarejolly SJ	•	•	•
	Schlüter®-Systems	Quadec	•	•	•
	Progress Profiles	Projolly Square	•	•	•
	Profilpas	Proangle Q	•	•	•
	Dural	Squareline	•	•	•
Thin corner profile		For thick.(mm)	3	3,5	5,5
,	Profiltec	Mosaictec RJF	•	•	•
	Progress Profiles	Prokerlam LINE	•	•	-
	Profilpas	Probord IPA	•	•	-
Corner profiles		For thick.(mm)	3	3,5	5,5
	Profilitec	Stairtec SE	•	•	•
	Schlüter®-Systems	ECK-K	•	•	•
	Progress Profiles	Proedge	•	•	-
	Profilpas	Procorner	•	•	-
	Dural	Duragard	•	•	•

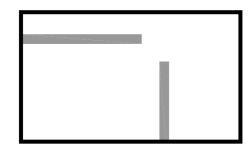
ZERO.3 Panaria > ZERO.3 Technical Manual

Making corners during installation

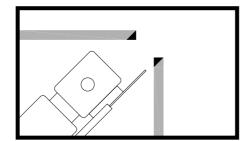
7.1 - Solution 1



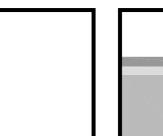
You can obtain "handmade" corner finishes with an attractive appearance and without using corner profiles.



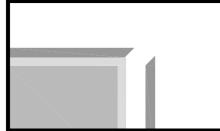
1 - Slabs of ZERO.3 in all types.



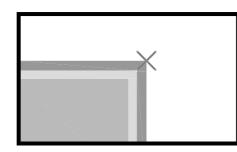
2 - Provide a 45° cut on the inner edge of the slab with a hand-held angle grinder or grinder fitted on a guide, such as the 36B bevelling machine made by Sigma.



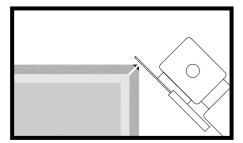
3 - Spread adhesive on the support.



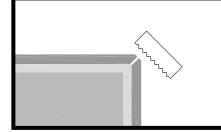
4 - Lay the first slab.

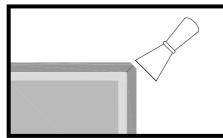


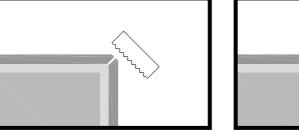
5 - Lay the second slab using 1 mm spacer crosses.

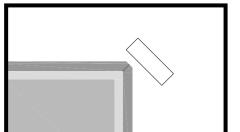


6 - After adhesive has cured, provide a **7** - Smoothen the edge with an abrasive **8** - Apply epoxy grout with a trowel (*). 45° cut with a hand-held angle grinder or grinder fitted on a guide, such as the 36B bevelling machine made by Sigma.

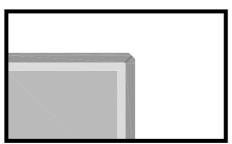




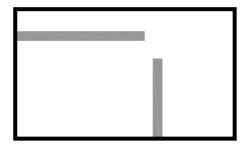




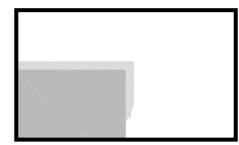
9 - Remove excess grout with a sponge **10** - The corner is now ready. moistened in warm water and alcohol (*).



7.2 - Solution 2



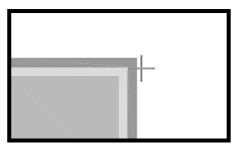
1 - Slabs of ZERO.3 in all types.



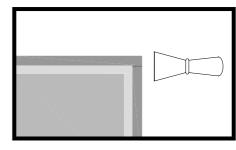
2 - Spread adhesive on the support.



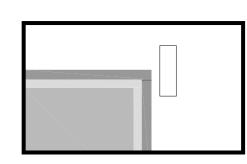
3 - Lay the first slab.



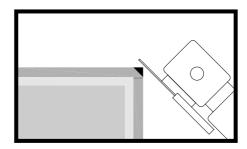
crosses.



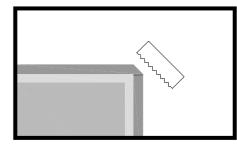
4 - Lay the second slab using 1 mm spacer **5** - After adhesive has cured, apply epoxy grout with a trowel (*).



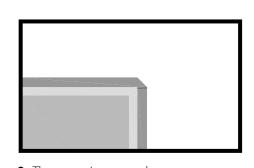
6 - Remove excess grout with a sponge moistened in warm water and alcohol (*).



7 - After grout has cured, provide a 45° cut with a hand-held angle grinder or grinder fitted on a guide, such as the 36B bevelling machine made by **Sigma** (*).



8 - Smoothen the edge with an abrasive **9** - The corner is now ready.





(*) To perform this operation, strictly follow the instructions provided by the epoxy grout manufacturer.



Technical information

8.1 - Technical characteristics

			GENERAL TE	CHNICAL CHARACTERIST	ics		
	TECHNICAL CHARACTERISTIC	Test m	ethod	Requirements under EN 14411 - G / ISO 13006 - G Group Bla-UGL	Values ZERO.3 - 3 mm	Values ZERO.3 - 3 Plus	Values ZERO.3 - 5 Plus
	Water absorption	ISO 10545-3		≤ 0,5%	≤ 0,1%	≤ 0,1% *	≤ 0,1%*
<u> </u>	Bending strength	ISO 10	0545-4	≥ 35 N/mm²	≥ 35 N/mm²	≥ 120 N/mm ^{2**}	≥ 55 N/mm²**
	Breaking strength (S)	ISO 10)545-4	≥ 700 N	Not requested Wall covering	≥ 1000 N**	≥ 1200 N**
₿	Deep abrasion resistance	ISO 10	0545-6	≤ 175 mm³	Compliant	Compliant	Compliant
	Compression strength			-	Not requested Wall covering	≥ 400 N/mm²	≥ 400 N/mm²
	Linear thermal expansion	ISO 10545-8		ISO makes no provision for this test	α ≤ 7·10 ⁻⁶ °C ⁻¹	α ≤ 7·10 ⁻⁶ °C ⁻¹	α ≤ 7·10 ⁻⁶ °C ⁻¹
	Thermal shock resistance	ISO 10)545-9	ISO makes no provision for this test	Resistant	Resistant	Resistant
	Frost-resistance	ISO 10.	545-12	No alterations	Resistant	Resistant	Resistant
	Chemical resistance	ISO 10	545-13	As indicated by manufacturer	Refer to specific collection catalogue	Refer to specific collection catalogue	Refer to specific collection catalogue
	Chemical resistance to household products	ISO 10	545-13	UB min.	Refer to specific collection catalogue	Refer to specific collection catalogue	Refer to specific collection catalogue
*	Stain resistance	Refer to spec catal		Class 3 min.	Refer to specific collection catalogue	Refer to specific collection catalogue	Refer to specific collection catalogue
		Length and width		± 0,6% max ± 2 mm	Compliant	Compliant	Compliant
		Straightness of sides		± 0,5% max ± 1,5 mm	Compliant	Compliant	Compliant
	Size characteristics	Squareness of sides	ISO 10545-2	± 0,6% max ± 2 mm	Compliant	Compliant	Compliant
		Flatness		± 0,5% max ± 2 mm	Compliant	Compliant	Compliant
		Thickness		± 5% max ± 0,5 mm	Compliant	Compliant	Compliant

*	Average va	lue referred	to ceramic	material	only

^{**} Average value referred to the all-in-one piece (slab and fiberglass mesh)

	SLIP RESISTANCE										
	SAFETY REQUIREMENTS	Test method	Reference requirement	Ratings ZERO.3 - 3 mm	Ratings ZERO.3 - 3 Plus	Ratings ZERO.3 - 5 Plus					
K	Dynamic coefficient of friction	B.C.R. Tortus	μ >0,40 L. 13/89 - M.D. 236/89 Leg. D. 503/96	Not required wall tiles	Refer to specific collection catalogue	Refer to specific collection catalogue					
2/.	Slip resistance	DIN 51130	R classification (slip angle α)	Not required wall tiles	Refer to specific collection	Refer to specific collection					
/\	Sub resistance	DIN 51097	A, B, C classification (slip angle α)	Not required Wall tiles	catalogue	catalogue					

	REACTION TO FIRE REQUIREMENTS								
	SAFETY REQUIREMENTS	Test method	Test method Reference requirement		Ratings ZERO.3 - 3 Plus	Ratings ZERO.3 - 5 Plus			
WALL INSTALLAT	TION								
	Reaction to fire	ISO DIS 1182.2	Italian standard M.D. 14/01/85 M.D. 15/03/05	Class 0	Class 1	Class 1			
	Reaction to fire	UNI EN 13823:2005	European standard Directive 89/106/CE Decision 2000/147/CE UNI EN 13501-1:2005	Class A1	Class A2 - s1,d0	Class A2 - s1,d0			
FLOOR INSTALL	ATION								
	Reaction to fire	ISO DIS 1182.2	Italian standard M.D. 14/01/85 M.D. 15/03/05	Class 0	Class 1	Class 1			
	Reaction to fire	UNI EN 13823:2005	European standard Directive 89/106/CE Decision 2000/147/CE UNI EN 13501-1:2005	Class A1 _{fl}	Class A2 _{fl} - s1	Class A2 _{fl} - s1			

	THERMAL CHARACTERISTICS								
	SAFETY REQUIREMENTS	Test method	Values ZERO.3 - 3 mm	Values ZERO.3 - 3 Plus	Values ZERO.3 - 5 Plus				
† † † ⁸	Heat conductivity	UNI EN 12524:2001	λ = 1,3 W/m°k λ = 1,1 kcal/mh°C	λ = 1,3 W/m°k λ = 1,1 kcal/mh°C	λ = 1,3 W/m°k λ = 1,1 kcal/mh°C				

	PHYSICAL-MECHANICAL CHARACTERISTICS									
	SAFETY Test method		Values ZERO.3 - 3 mm	Values ZERO.3 - 3 Plus	Values ZERO.3 - 5 Plus					
+ +	Tensile modulus (Young's Modulus)	-	55 - 60 GPa	55 - 60 GPa	55 - 60 GPa					
1	Density	Density -		2300 -2500 kg/m³	2300 -2500 kg/m³					
S. S	Sound absorption coefficient a	UNI EN ISO 11654	0,01 - 0,02	0,01 - 0,02	0,01 - 0,02					



8.1 - Technical characteristics

	TECHNICAL CHARACTERISTICS							
	TECHNICAL CHARACTERISTIC	Test method		ANSI A137.1 Required value for unglazed porcelain tiles P1 Class	Values ZERO.3 - 3 mm	Values ZERO.3 - 3 Plus	Values ZERO.3 - 5 Plus	
	Water absorption	ASTM	I C373	≤ 0.5%	Compliant	Compliant (*)	Compliant (*)	
Ţ	Breaking strength (S)	ASTM	I C648	≥ 250 lbf	Not required Wall Tiles	Compliant (**)	Compliant (**)	
<u>\$</u>	Deep abrasion resistance	ASTM	C1243	≤ 175 mm³	Compliant	Compliant	Compliant	
	Compression strength		-	ANSI makes no provision for this test	≥ 56000 PSI	≥ 56000 PSI	≥ 56000 PSI	
1 1	Linear thermal expansion	ASTM	I C372	Not required	α ≤ 8 X 10 ⁻⁶ °C ⁻¹ α ≤ 4.4 X 10 ⁻⁶ °F ⁻¹	$\alpha \le 8 \times 10^{-6} ^{\circ}\text{C}^{-1}$ $\alpha \le 4.4 \times 10^{-6} ^{\circ}\text{F}^{-1}$	α ≤ 8 X 10 ⁶ °C ⁻¹ α ≤ 4.4 X 10 ⁶ °F ⁻¹	
	Thermal shock resistance	ASTM	l C484	Not alteration	Resistant	Resistant	Resistant	
	Frost-resistance	ASTM	C1026	Not required	Resistant	Resistant	Resistant	
	Chemical resistance	ASTM	l C650	Not required	Resistant	Resistant	Resistant	
	Bond strength			≥ 50 PSI	Compliant	Compliant	Compliant	
3	Stain resistance	ASTM	C1378	Not required	Resistant	Resistant	Resistant	
		Warpage edge	ASTM C485	± 0.40% or max ± 0.05" for tiles up to 24"x24" or max ± 0.07" for tiles larger to 24"x24"	Compliant	Compliant	Compliant	
		Warpage diagonal	ASTM C485	± 0.40% or max ± 0.07"	Compliant	Compliant	Compliant	
	Dimensions	Nominal sizes	ASTM C499	- 3.0% / + 2,0% of nominal dimensions	± 0.5%	± 0.5%	± 0.5%	
		Caliber range	ASTM C499	± 0.25% or max ± 0.03"	Compliant	Compliant	Compliant	
		Thickness	ASTM C499	≤ 0.040"	≤ 0.030″	≤ 0.030"	≤ 0.030"	
		Wedging	ASTM C502	± 0.25% or max ± 0.03"	Compliant	Compliant	Compliant	

^{*} Average value referred to ceramic material only.

	SLIP RESISTANCE												
	SAFETY REQUIREMENTS	Test method	Reference requirement	Ratings ZERO.3 - 3 mm	Ratings ZERO.3 - 3 Plus	Ratings ZERO.3 - 5 Plus							
K	Static coefficient of friction (SCOF) ASTM C 1028		ΔCIM (1008		Refer to specific collection catalogue	Refer to specific collection catalogue							
K	Dynamic coefficient of friction (DCOF)	ANSI A137.1:2012 (BOT 3000)	DCOF ≥ 0.42 (wet internal spaces)	Not required Wall tiles	Refer to specific collection catalogue	Refer to specific collection catalogue							

	THERMAL CHARACTERISTICS										
	SAFETY REQUIREMENTS	Test method	Values ZERO.3 - 3 mm	Values ZERO.3 - 3 Plus	Values ZERO.3 - 5 Plus						
† † † ¹	Thermal conductivity	UNI EN 12524:2001	$\lambda = 0.7$ Btu/ft h°F	$\lambda = 0.7$ Btu/ft h°F	$\lambda = 0.7$ Btu/ft h°F						

^{**} Average value referred to the all-in-one piece (slab and fiberglass mesh).



8.2 - Tender specifications

STA	ANDARDS EN 14	411 / ISO 13006	/ ISO 10545 / [DIN / B.C.R.						
Thickness	ZER0.3, thickness 3	3 mm - ZER0.3 - 3 Plu	s, thickness 3,5 mm	- ZER0.3 - 5 Plus, thick	ness 5,5 mm					
Sizes	100x300 cm, 100x1	00 cm, 50x150 cm, 5	0x100 cm, 50x50 cm	n, 4,9x100 cm, 20x200 d	cm, 20x150 cm 20x	x100 cm				
Series and colours	Aisthesis	Bianco	Paglierino	Sabbia	Cacao	Lavica				
	ZER0.3, ZER0.3 - 3 Plus) Doghe (ZER0.3, ZER0.3 - 3 Plus)	Rovere Naturale	Rovere Oliato	Rovere Verniciato						
	Experience (ZER0.3, ZER0.3 - 3 Plus)	Bianco denso	Beige tenue	Grigio vivo	Nero puro					
	Lightquarz (ZER0.3, ZER0.3 - 3 Plus)	Bianco	Beige	Grigio	Antracite					
	Utopia (ZER0.3 - 3 Plus)	Ideale	Ispirazione	Visione						
	Citysound (ZER0.3 - 5 Plus)	Lights	People	View	Liberty					
Type of surface	Unglazed (UGL)									
Shaping method	Pressing									
Water absorption in accordance to EN ISO 10545.3 (Ceramic slabs)	≤ 0,5% *									
Classification in accordance to EN 14411/ISO 13006	6 GROUP Bla									
Reference specifications for first grade product in accordance to EN 14411 / ISO 13006	EN 14411 / ISO 1300	06 Appendix G								
Performance classification in accordance to	EN - ISO - DIN - B.C	R.								
Declared safety features	Doghe 0.3 R10 (DIN Experience 0.3 R9 Lightquarz 0.3 R9 (Utopia 0.3 R9 (DIN Citysound 5 Plus R	(DIN 51130) DIN 51130) μ > 0,40 (l 51130)	.R., rif. DM 236 of 14 B.C.R., rif. DM 236 of 0 (B.C.R., rif. DM 236	4.06.1989) .06.1989), Classe B (A+ f 14.06.1989), Classe A (5 of 14.06.1989) Classe	(DIN 51097)	")				
	Fire reaction, Italy	(DM 14/01/85, DM 15.	/03/05. Method ISO	/DIS 1182 2)						
	ZERO.3: classe 0 ZERO.3 - 3 Plus: clas ZERO.3 - 5 Plus: Cla	sse 1	, 63, 63, Metriod 136,	513 1102.2)						
	ZER0.3: classe A1 (v ZER0.3 - 3 Plus: class	oean Union (Dir. 89/1 valls), classe A1fl (floc sse A2-s1,d0 (walls), c sse A2-s1,d0 (walls), c	ors) :lasse A2fl-s1 (floors)		005, Methodo UNI	EN 13823:2005)				
Thermal characteristics		rity λ: 1,3 W/m °K (UN ance U: 430 W/m2 °K		K (Plus 3,5 mm), 236 W	/m2 °K (Plus 5,5 m	m)				
Data for the technical chart	and purity (light cl	New ceramic mineral produced in 300x100 cm slabs of porcelain stoneware, obtained using raw materials of high quality and purity (light clay, feldspar fluxes and ceramic pigments with a high chromatic performance). After wet milling, the mixture is spray dried, then pressed by compacting on a belt with a force of 15,000 tons and fired at a temperature of								

^{*} Average value referred to ceramic material only.

8.3 - Packages

				Boxes			Pallet	
Article	cm	inch	pieces	sqm	kg	boxes	sqm	kg
Fondo	100x300	39"x118"	1	3	22,2	13	39	288,60
Fondo 3 Plus	100x300	39"x118"	1	3	25,35	12	36	304,2
Fondo 5 Plus	100x300	39"x118"	1	3	34,5	8	24	276
Fondo	100x100	39"x39"	3	3	22,2	25	75	555
Fondo 3 Plus	100x100	39"x39"	3	3	24,1	25	75	602,5
Fondo 5 Plus	100x100	39"x39"	2	2	23	25	50	575
Fondo 3 Plus	50x150	19 ^{1/2} "x59"	3	2,25	16,02	20	45	320,4
Fondo 5 Plus	50x150	19 ^{1/2} "x59"	2	1,50	17,25	32	48	552
Fondo	50x100	19 ^{1/2} "x39"	5	2,5	17,8	32	80	569,6
Fondo 3 Plus	50x100	19 ^{1/2} "x39"	5	2,5	20	32	80	640
Fondo 3 Plus	50x50	19 ^{1/2} "x19 ^{1/2} "	7	1,75	14	48	84	672
Fondo 3 Plus	20x200	8"x79"	4	1,60	13,7	40	64	548
Fondo 3 Plus	20x150	8"x59"	5	1,5	12,8	40	60	512
Fondo 3 PLus	20x100	8"x39"	5	1	8,5	40	40	340
Fondo	4,9x100	2"x39"	10	0,49	3,9	39	19,11	152,10
Decoro Flora A/B/C/D/E	100x100	39"x39"	1	1	7,4	-	-	-
Decoro Astine	50x100	19 ^{1/2} "x39"	4	2	14	-	-	-
Decoro Gessato	50x100	19 ^{1/2} "x39"	4	2	14	-	-	-
Decoro Quadretti	50x100	19 ^{1/2} "x39"	4	2	14	-	-	-
Decoro Cerchi	50x100	19 ^{1/2} "x39"	4	2	14	-	-	-
Decoro Elio	50x100	19 ^{1/2} "x39"	4	2	14	-	-	-
Decoro Filato	50x100	19 ^{1/2} "x39"	4	2	14	-	-	-
Decoro Tratto	50x100	19 ^{1/2} "x39"	4	2	14	-	-	-
Decoro Chimera 1/2/3	50x100	19 ^{1/2} "x39"	2	1	7	-	-	-
Decoro Astro Lucente A/B	50x100	19 ^{1/2} "x39"	4	8	1	-	-	-
Trine Preziose	25x100	10"x39"	4	1	8	-	-	-
Mosaico A Experience	50x50	19 ^{1/2} "x19 ^{1/2} "	3	0,75	5,25	-	-	-
Mosaico B Experience	25x25	10"x10"	6	0,375	2,70	-	-	-
Mosaico C Experience	25x100	10"x39"	3	0,75	5,25	-	-	-
Mosaico A Lightquarz	25x25	10"x10"	6	0,375	2,7	-	-	-
Mosaico B Lightquarz	25x25	10"x10"	6	0,375	2,7	-	-	-
Mosaico C Lightquarz	25x25	10"x10"	6	0,375	2,7	-	-	-
Mosaico Utopia	25x25	10"x10"	6	0,375	2,7	-	-	-
Worn out	100x100	39"x39"	2	2	23	25	50	575
Murales	300x300	118"x118"	3	9	103,5	-	-	-



Useful contacts

The companies mentioned in this manual are our own choices and are therefore recommended but not an obligatory choice.

Adhesives

MAPEI S.p.A.

Via Cafiero 22 20158 (MI) - Italy Tel. +39 02 37673 www.mapei.it

KERAKOLL S.p.A

Via dell'Artigianato, 9 41049 Sassuolo (MO) - Italy Tel. +39 0536 811516 www.kerakoll.com

LATICRETE S.r.l.

Piazza Martiri, 7 19020 Brugnato (SP) - Italy Tel. +39 0187 897470 Fax +39 0187 896881 e-mail info@laticrete.it www.laticrete.it

LITOKOL S.p.A

Via G. Falcone, 13/1 42048 Rubiera (RE) - Italy Tel. +39 0522 622811 Fax. +39 0522 620150 e-mail info@litokol.it www.litokol.it

WEBER SAINT-GOBAIN

Via Sacco e Vanzetti, 54 41042 Fiorano Modenese (MO) - Italia Tel. +39 0536 837111 e-mail info@e-weber.it www.e-weber.it

PCI - BASF Construction Chemicals Italia S.p.A

Via Vicinale delle corti, 21 31100 Treviso (TV) - Italy Tel. +39 0422 304251 e-mail info@vittoriorossi.it www.basf-cc.it

ARDEX S.r.I

Via Alessandro Volta, 73 (Località Pigna) 25015 Desenzano del Garda - Italy Tel. +39 0309 119952 www.ardex.it

Profiles and trim pieces

PROFILITEC S.p.A.

Via Brescia, 43 36040 Torri di Quartesolo (VI) - Italy Tel. +39 0444 268311 Fax +39 0444 268310 www.profilitec.com

SCHLÜTER-SYSTEMS Italia S.r.l.

Via Bucciardi 31/33 41042 Fiorano Modenese (MO) Tel. +39 0536 914511 Fax +39 0536 911156 www.schlueter.it

PROGRESS PROFILES S.p.A.

Via Le Marze, 7 31011 Asolo (TV) - Italy Tel. +39 0423 950398 Fax +39 0423 950979 www.progressprofiles.com

PROFILPAS S.p.A.

Via Einstein, 38 35010 Cadoneghe (PD) - Italy Tel. +39 049 8878411 Fax +39 049 706692 www.profilpas.com

DURAL GmbH & Co.

Via Oberdan, 11 40126 Bologna (BO) - Italy Tel. +39 051 0971513 Fax +39 051 0971513 www.dural.com

WEDI ITALIA S.r.l.

Via Redipuglia, 32 20035 Lissone (MI) - Italy Tel. +39 0392 459420 www.wedi.it

RARE S.r.I

Via delle Brughiere, 12 21050 Cairate (VA) - Italy Tel. +39 0331 360360 Fax +39 0331 360168 www.rareboxdoccia.com

Cleansers

MAPEI S.p.A.

Via Cafiero 22 20158 (MI) - Italy Tel. +39 02 37673 www.mapei.it

FABERCHIMICA S.r.I.

via G. Ceresani, 10 - Località Campo d'Olmo 60044 Fabriano (AN) - Italy Tel. +39 0732 627178 www.faberchimica.com

FILA Industria Chimica S.p.A.

via Garibaldi, 32 35018 S. Martino dei Lupari (PD) - Italy Tel. +39 049 9467300 www.filachim.it

ZEP Italia S.r.l.

via Nettunese, Km 25,000 04011 Aprilia (LT) - Italy Tel. +39 06 926691 www.zepitalia.it

JOHNSONDIVERSEY S.p.A.

via Meucci, 40 20128 Milan - Italy Tel. +39 0373 2051 www.johnsondiversey.com

KITER S.r.l.

via Assiano, 7/B 20019 Settimo Milanese (MI) - Italy Tel. +39 02 3285220 www.kiter.it

GEAL S.r.l.

via Settola, 121 51031 Agliana (PT) - Italy Tel. +39 0574 750365 www.geal-chim.it

FEDERCHEMICALS S.r.l.

via G. Borsi, 2 25128 - Brescia - Italy Tel. +39 030 3390880 Fax +39 030 3385580 www.federchemicals.it

Cleansers

LITHOFIN-Producte GmbH

Postfach 1134, D-73236 Wendlingen (D) Tel. 0049 07024/940320 www.lithofin.de Vertrieb für Österreich: CT-Austria Ges.m.b.H. A-1230 Wien Tel. +43 01 8673434

HMK - MÖLLER-CHEMIE

Benelux GmbH - Linge 4 NL-2105 WB Heemstede (NL) Tel. +31 0252 220222 www.moellerchemie.de

CPSystems

Via Borgo S. Chiara, 29 30020 Torre di Mosto (VE) - Italy Tel. +39 0421 325691 Fax +39 0421 324232 www.cpsystems.info

LITOKOL S.p.A

Via G. Falcone, 13/1 42048 Rubiera (RE) - Italy Tel. +39 0522 622811 Fax. +39 0522 620150 e-mail info@litokol.it www.litokol.it

Cushioning for insulation against sound, etc.

SCHLÜTER-SYSTEMS Italia S.r.l.

Via Bucciardi 31/33 41042 Fiorano Modenese (MO) Tel. +39 0536 914511 Fax +39 0536 911156 www.schlueter.it

GUTJAHR Systemtechnik GmbH

Philipp-Reis-Str. 5-7 D-64404 Bickenbach/Bergstraße Tel. +49 0 62 57 - 93 06-0 Fax +49 0 62 57 - 93 06-31 www.gutjahr.com

MAPEI S.p.A.

Via Cafiero 22 20158 (MI) - Italy Tel. +39 02 37673 www.mapei.it

Notched and rubber coated trowels

RAIMONDI S.r.I.

Via Dalla Casta, 300/A 41100 Modena (MO) - Italy Tel. +39 059 280888 Fax +39 059 282808 www.raimondiutensili.it

Plaster

FASSA BORTOLO S.p.A.

via Lazzaris, 3 31027 Spresiano (TV) - Italy Tel. +39 0422 7222 Fax +39 0422 887509 www.fassabortolo.com

GRIGOLIN S.p.A.

Via IV Novembre, 18 31010 Ponte della Priula (TV) - Italy Tel. +39 0438 4461 Fax +39 0438 445110 www.gruppogrigolin.it

Cutting discs / diamond and abrasive discs / Drill bits

DIAMANT CENTER - TYROLIT S.r.l.

Via Valle d'Aosta, 12 41049 Sassuolo (MO) - Italy Tel. +39 0536 808166 Fax +39 0536 808211 www.diamantcenter.it

MONTOLIT S.p.A.

Via Turconi, 25 21050 Cantello (VA) - Italy Tel. +39 0332 419211/417744 e-mail info@montolit.com www.montolit.com

RAIMONDI S.r.İ.

Via Dalla Casta, 300/A 41100 Modena (MO) - Italy Tel. +39 059 280888 Fax +39 059 282808 www.raimondiutensili.it

Cutting discs / Diamond and abrasive discs / Drill bits

RUBI ITALIA S.r.l.

Via Radici in Piano, 596/A 41049 Sassuolo (MO) - Italy Tel. +39 0536 810984 Fax +39 0536 810987 e-mail rubitalia@rubi.com

WÜRTH S.r.l.

Via Stazione, 51 39044 Egna (BZ) - Italy Tel. +39 06 90779001 Fax +39 06 90386201 e-mail clienti@wuerth.it

Tile cutters / Glass cutters Abrasive sponges

BOHLE ITALIA S.r.l.

Via Cavallotti, 28 20081 Abbiategrasso (MI) - Italy Tel. +39 02 94967790 Fax +39 02 94609011 e-mail Italia@Bohle.de

WÜRTH S.r.l.

Via Stazione, 51 39044 Egna (BZ) - Italy Tel. +39 06 90779001 Fax +39 06 90386201 e-mail clienti@wuerth.it

Tile cutter rulers

SIGMA S.n.c.

Via A. Gagliani, 4 47813 Igea Marina Bellaria (RN) - Italy Tel. +39 0541 330103 Fax +39 0541 330422 www.sigmaitalia.com

RAIMONDI S.r.l.

Via Dalla Casta, 300/A 41100 Modena (MO) - Italy Tel. +39 059 280888 Fax +39 059 282808 www.raimondiutensili.it

Adhesives attachment

Exteriors

As a general rule that applies for all building materials to be secured in place with adhesive, there is no universal adhesive for installing ZERO.3 on all kinds of surface.

Since it is not possible to describe all possible cases, we have provided information about the most common situations. First of all, we have divided installation cases into "walls" and "floors" and then into "interior" and "exterior". Depending on the rated stress, on any work to be performed subsequently and on the maximum dimension of the slab, we have assigned a certain type of ZERO.3 to each category. Starting from this classification, we have thus examined the most common kinds of supporting material. The resulting chart has been sent to all main manufacturers of adhesives that have, in turn, provided the most suitable product for each category.

Please note that all solutions suggested have been submitted by adhesive manufacturers, who guarantee the indications given. For explanations or more information, contact the respect manufacturers (see "9 - **Useful contacts"**).

It is essential to follow all instructions given by adhesive manufacturers. This applies in particular to waiting time running before a surface can be walked on or grouted and the "Ready to use" time shown in the following tables.

	WALL INSTALLATION (*) For NEW BUILDINGS and REFURBISHING, for installat	ion on ¡	pre-existing walls	
		mm	Two-coat plaster, gypsum plaster, plasterboard, fibre cement panels	Page 38
	Any residential and commercial environment, in situations where holes and/or cuts are not necessary.	ZERO.3 - 3	Concrete, old ceramic tile, marble, stone	Page 39
		ZE	Particle board, metal	Page 40
		Plus Plus	Two-coat plaster, gypsum plaster, plasterboard, fibre cement panels	Page 41
Interiors	Any residential and commercial environment, in situations where holes and/or cuts are necessary.	ZERO.3 - 3 Plus ZERO.3 - 5 Plus	Concrete, old ceramic tile, marble, stone	Page 42
		ZEF	Particle board, metal	Page 43
	In situations where holes and/or cuts are not necessary	- 3 mm	Plaster	Page 44
	and with sizes up to 100 x 100 cm.	ZERO.3	Concrete	Page 45
	In situations where holes and/or cuts are necessary and/	- 3 Plus - 5 Plus	Plaster	Page 46
Exteriors	or for large sizes.	ZERO.3 - 3 ZERO.3 - 5	Concrete	Page 47
	FLOOR INSTALLATION (*) For NEW BUILDINGS and REFURBISHING, for installat	ion on p	ore-existing floors Cement-based screeds, calcium sulphate-based or	
	Residential (kitchens, bathrooms, living rooms, common apartment block areas and any other residential environment).	3 Plus 5 Plus	heated screeds, self-levelling products, concrete, old ceramic tile, marble slabs, stone	Page 48
	Light commercial (offices, offices open to the general public, waiting rooms, shops, bathrooms, restaurant dining rooms, car showrooms, bars, cinemas, surgeries/clinics).	ZERO.3 - 3 Plus ZERO.3 - 5 Plus	Wood, PVC, rubber, linoleum, metal, resin	Page 49
Interiors	Intensive commercial (common areas of shopping centres, hotel halls, canteens, fast food restaurants, dance clubs, hospitals) with the exception of areas	3 - 5 Plus	Cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tile, marble slabs, stone	Page 48
	subject to heavy concentrated loads (e.g. trolleys with hard wheels).	ZERO.3	Wood, PVC, rubber, linoleum, metal, resin	Page 49
•	Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally impervious.	ZERO.3 - 3 Plus ZERO.3 - 5 Plus	Cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tile, marble slabs, stone	Page 48
Exteriors	The use of sizes that are not larger than 50x50 cm is recommended.	ZERO.3 ZERO.3	Wood, PVC, rubber, linoleum, metal, resin	Page 49

(*) Products with special finishes can have limitations depending on their area of application. Refer to specific collection catalogues.

How to read the attachment

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Setting for foot traffic and workability (***)	Ready for use (***)	Installation (*)
01	02	03	04	05	06	07	08	09	10	11

- **01**_ The installation supervisor must examine the conditions of the work site to choose between a normal setting adhesive or a quick setting
- **02**_ List of adhesive manufacturers.
- **03**_ Depending on the adhesive recommended by the manufacturer, you will find the size in cm of the slab.
- **04**_ List of adhesives recommended by manufacturers based on the intended use and size of slabs.
- **05**_ List of primers to use before adhesive application, as indicated by manufacturers for each intended use.
- **06**_ The mixing ratio refers to a single product unit (a bag, a can, etc.), in order to obtain the characteristics declared by manufacturers.
- 07_ The adhesive's class under the UNI EN 12004 standard is indicated (see Sheet below "About ADHESIVES").
- **08**_ You will find an indication of how many square metres you can install with a single product unit prepared with the established mixing ratio.
- **09**_ You will find the time that must pass before treading on the surface to fill joints with grout.
- 10_ You will find the time that must pass before using the floor, i.e. before it can go subject to static and/or dynamic stress.
- 11_ You will find the installation method and features of the trowel to use for each adhesive.

About ADHESIVES

Adhesives are divided into THREE CLASSES, depending on their composition, as established by the UNI EN 12004 standard:

CEMENTITIOUS (C): mixture of hydraulic binding agents, aggregates and organic additives (note to be mixed with water or other liquid additive immediately before use)

REACTIVE (R): mixture of synthetic resin, mineral fillers and organic additives, which harden due to a chemical reaction (note: these adhesives may have one or more components)

DISPERSION (D): mixture of binding and organic agents, namely polymers in aqueous dispersion, organic additives and mineral fillers (note: ready-to-use mixtures)

Depending on their features, adhesives are thus classified:

Class 1: normal setting

Class 2: improved setting properties

There are three additional classes:

Class F: quick setting adhesives

Class **T**: slip resistant adhesives

Class E: adhesives with extended open time

There is a fourth additional class for cementitious adhesives only: adhesives can be classified as DEFORMABLE (S) and divided on the basis of test results under the UNI EN 12002 standard:

Class **\$1**: deformable adhesives

Class **S2**: highly deformable adhesives

A.1a - Wall installation in interiors of ZERO.3 - 3 mm



Supporting material: two-coat plaster, gypsum plaster, plasterboard, fibre cement panels.

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)	
		50x50: 100x40:	KERAFLEX MAXI S1		1 bag (25 kg) + 7,2/7,7 litres of water	C2 TE S1					
		100x50	ULTRALITE S1	Compulsory for gypsum- based, anhydride	1 bag (15 kg) + 8,4/8,7 litres of water	C2TE S1	7 m ²				
	MAPEI	100x100;	ULTRALITE S2	or absorbent surfaces:Primer G or ECOPRIM T	1 bag (15 kg) + 5,9/6,2 litres of water	C2 E S2	6,3 m ²	8 hours	14 days		
		300x100	KERABOND + ISOLASTIC		1 bag (25 kg)+ 8,5 kg of ISOLASTIC	C2 E S2	6,5 m ²				
Ξ				For gypsum-based	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water					Installation with a	
For situations in which a	KERAKOLL	All sizes	H40 NO LIMITS	surfaces: Primer A Eco	White 1 bag (25 kg) from 7,2 to 9,5 litres of water	C2 TE S1	6 m ²	20 hours	3 days	double layer of adhesive	
normal setting adhesives is recommended	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m²	1 day	14 days		
recommended	LITOKOL	All sizes	SUPERFLEX K77	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 8,5 litres of water	C2 TE S1	6 m²	8 hours	14 days		
	PCI - BASF	All sizes	PCI NANOLIGHT	For gypsum-based surfaces: PCI GISOGRUND	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m ²	8 hours	1 day		
	SAINT-		WEBER.COL PRO HP	For gypsum-based	1 bag (25 kg) + 7 litres of water	C2 TE S1		8 hours			
	GOBAIN / WEBER	All sizes	WEBER.COL PRO HF LIGHT	surfaces: WEBER.PRIM PF15	1 bag (15 kg) + 8 litres of water	C2 TE S2	5 m ²	1 day	14 days		
	ARDEX	All sizes	ARDEX X 77 Microtec	For gypsum-based surfaces: ARDEX P 51	1 bag (25 kg) + 11 litres of water	C2 T(T) E(E) S1	10 m ²	8 hours	1 day	Installation with a single-layer of adhesive (6 mm trowel)	
	50x50; 100x4 100x50	50x50; 100x40; 100x50	GRANIRAPID	COMPULSORY for gypsum- based, anhydride or absorbent surfaces: Primer G or ECOPRIM T	Component A: 1 bag (25 kg) Component B: tub (5,5 kg)	C2 F S1	6 m²				
		100x50	ULTRALITE S1 QUICK		1 bag (15 kg) +	C2 FTE S1		- 3 hours	1 day		
	MAPEI		QUICK ULTRALITE S2 QUICK		5,1/5,7 litres of	C2 FE S2	7 m²				
		100x100; 300x100	ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FTE S2	6 m ²				
	KERAKOLL	All sizes	H40 ECO RAPIDFLEX	For gypsum-based surfaces: Primer A Eco	1 bag (25 kg) + 6,3 litres of water	C2FTE S1	6 m²	3 hours	2 days	Installation with a double layer of adhesive	
For situations in which a quick setting adhesive is recommended	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg)+ 6/7 litres of latex	C2TE F	5 m ²	6 hours	2 days	double layer of adriestive	
	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL + water	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 3,5 litres of LATEXKOL + 3,5 litres of water	C2 FE S1	5 m²	4 hours	1 day		
	PCI - BASF	All sizes	PCI NANOLIGHT	For gypsum-based surfaces: PCI GISOGRUND	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m ²	8 hours	1 day		
	SAINT-	All a'	WEBER.COL PRO MARMO + WEBER L50	For gypsum-based	1 bag (25 kg) + 7 litres of WEBER L50	C2 FT	F x-2	4 he	3		
	GOBAIN / WEBER		WEBER.COL PRO RAPID + WEBER WEBER.PRIM PF15 1 bag + 6-6,5	1 bag (25 kg) + 6-6,5 litres of WEBER L50	S1	S1	5 m²	4 hours	3 days	days	
	ARDEX	All sizes	ARDEX X 77 S microtec	For gypsum-based surfaces: ARDEX P 51	1 bag (25 kg) + 8,5 litres of water	C2 FT(T) E S1	10 m ²	90 min.	6 hours	Installation with a single layer of adhesive (6 mm trowel)	

^(*) Instructions provided directly by manufacturers, who guarantee the information given.

A.1b - Wall installation in interiors of ZERO.3 - 3 mm



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Supporting material: concrete, old ceramic tile, marble, stone

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
		50x50; 100x40;	KERAFLEX MAXI S1		1 bag (25 kg) + 7,2/7,7 litres of water	C2TE S1	- 2			
		100x50	ULTRALITE S1	If levelling is necessary, on the above mentioned supports, apply the	1 bag (15 kg) + 8,4/8,7 litres of water	C2 TE S1	7 m ²			
	MAPEI	100x100;	ULTRALITE S2	following product beforehand ECOPRIM GRIP	1 bag (15 kg) + 5,9/6,2 litres of water	C2 E S2	6,3 m ²	8 hours	14 days	
		300x100	KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 E S2	6,5 m ²			
				Notaconario accuding to	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water					
For situations	KERAKOLL	All sizes	H40 NO LIMITS	Not necessary, according to manufacturer	White 1 bag (25 kg) from 7,2 to 9,5 litres of water	C2 TE S1	6 m ²	20 hours	3 days	Installation with a double layer of adhesiv
in which a normal setting	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m²	1 day	7 days	
adhesives is recommended	LITOKOL	All sizes	SUPERFLEX K77	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 litres of water	C2 TE S1	6 m ²	8 hours	7 days	
	PCI - BASF	All sizes	PCI NANOLIGHT	On non-absorbent supports PCI GISOGRUND 303	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m ²	8 hours	1 day	
	SAINT- GOBAIN /	50x50; 100x40; 100x50	WEBER.COL PRO HP	For old ceramic tile, marble slabs and stone:	1 bag (25 kg) + 7 litres of water	C2 TE S1	5 m ²	8 hours	14 days	
	WEBER	100x100; 300x100	WEBER.COL PRO HP + WEBER L50	WEBER. FLOOR 4716 Prime	1 bag (15 kg) + 7 litres of WEBER L50	C2 TE S2	3111	onours	14 days	
	ARDEX	All sizes	ARDEX X 77 Microtec	As an alternative for old ceramic tile, marble slabs and stone:- ARDEX P 4 - ARDEX X 77 (rough levelled)	1 bag (25 kg) + 11 litres of water	C2T(T) E(E) S1	10 m ²	8 hours	1 day	Installation with a sing layer of adhesive (6 mm trowel)
		50x50; 100x40; 100x50 APEI 100x100; 300x100	GRANIRAPID		Component A: 1 bag (25 kg) Component B: tub (5,5 kg)	C2 F S1	6 m ²			
	MAPEI		ULTRALITE S1 QUICK	supports, apply the following product beforehand ECOPRIM GRIP	1 bag (15 kg) + 5,1/5,7 litres of	C2 FTE S1		3 hours	1 day	
	WAI LI		ULTRALITE S2 QUICK		water	C2 FE S2	7 m ²			
			ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FTE S2	6 m²			
	KERAKOLL	All sizes	H40 ECO RAPIDFLEX	Not necessary, according to manufacturer	1 bag (25 kg) + 6,3 litres of water	C2FTE S1	6 m ²	3 hours	2 days	
	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m²	6 hours	2 days	Installation with a double layer of adhesiv
For situations in which a quick setting	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL + water	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 3,5 litres of LATEXKOL + 3,5 litres of water	C2 FE S1	5 m²	4 hours	1 day	
adhesive is recommended	PCI - BASF	All sizes	PCI NANOLIGHT	On non-absorbent supports PCI GISOGRUND 303	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m ²	8 hours	1 day	
	SAINT- GOBAIN /	All sizes	All sizes	For old ceramic tile, marble	1 bag (25 kg) + 7 litres of WEBER L50	C2 FT	5 m ²	4 hours	3 days	
	WEBER	I / All sizes		slabs and stone: WEBER. FLOOR 4716 Prime	1 bag (25 kg) + 6-6,5 litres of WEBER L50	S1	111	+ HUUIS	3 uays	
	ARDEX	All sizes	ARDEX X 77 S microtec	As an alternative for old ceramic tile, marble slabs and stone:- ARDEX P 4 - ARDEX X 77 (rough levelled)	1 bag (25 kg) + 8,5 litres of water	C2 FT(T) E S1	10 m ²	90 min.	6 hours	Installation with a singl layer of adhesive (6 mm trowel)

^{*)} Instructions provided directly by manufacturers, who guarantee the information given.

For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts")".

instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts")".

^{***)} Ratings provided directly by manufacturers, who guarantee the information given, are based on laboratory tests performed at 23° C and with a relative humidity of 50%. In the event of use in different situations or for explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts")".

For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts")".

^{**)} Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts")".

^(***) Ratings provided directly by manufacturers, who guarantee the information given, are based on laboratory tests performed at 23° C and with a relative humidity of 50%. In the event of use in different situations or for explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts")".

A.1c - Wall installation in interiors of ZERO.3 - 3 mm



Supporting material: particle board, metal

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
	MAPEI	All sizes	KERALASTIC	Not necessary, according to	1 can (10 kg)	R2	3 m²	12 hours	7 days	
	MAPEI	All Sizes	KERALASTIC T	manufacturer	1 can (10 kg)	R2T	3111	12 Hours	7 days	
	KERAKOLL	All sizes	H40 NO LIMITS	KERAGRIP ECO	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water	C2 TE S1	6 m²	20 h a	2 dove	
\blacksquare	RERAROLL	All Sizes	H40 NO LIMITS	KERAGRIP ECO	White 1 bag (25 kg) from 7,2 to 9,5 litres of water	CZTEST	6 m ²	20 hours	3 days	Installation with a double layer of adhesive
For situations in which a normal setting	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of compo- nent A (5 kg) 1 bucket of compo- nent B (2 kg)	R2T	3 m²	1 day	7 days	
adhesives is recommended	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	5 days	
	PCI - BASF	All sizes	PCI NANOLIGHT	Use of the following product is compulsory: PCI GISOGRUN 303	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m ²	8 hours	1 day	
	SAINT- GOBAIN / WEBER	All sizes	FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m²	12 hours	2 days	Installation with a single-layer of adhesive
	ARDEX	All sizes	ARDEX X 77 microtec	ARDEX P 82	1 bag (25 kg) + 11 litres of water	C2 T(T) E(E) S1	10 m ²	8 hours	1 day	(6 mm trowel)
	MAPEI	All sizes	KERAQUICK + LATEX PLUS	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 kg of LATEX PLUS	C2 FT S2	7 m²	3 hours	1 day	Installation with a double layer of adhesive
	KERAKOLL	All sizes	H40 ECO RAPIDFLEX	keragrip eco	1 bag (25 kg) + 6,3 litres of water	C2FTE S1	6 m²	3 hours	2 days	
For situations	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	2 m ²	1 day	7 days	Installation with a single layer of adhesive (6 mm trowel)
For situations in which a quick setting adhesive is recommended	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	5 days	Installation with a
	PCI - BASF	All sizes	PCI NANOLIGHT	Use of the following product is compulsory: PCI GISOGRUN 303	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m²	8 hours	1 day	double layer of adhesive
	SAINT- GOBAIN / WEBER	All sizes	WEBER.COL FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m²	12 hours	2 days	Installation with a
	ARDEX	All sizes	ARDEX X 77 S microtec	ARDEX P 82	1 bag (25 kg) + 8,5 litres of water	C2 FT(T) E S1	10 m ²	90 min.	6 hours	single-layer of adhesive (6 mm trowel)

A.2a - Wall installation in interiors of ZERO.3 - 3 Plus and ZERO.3 - 5 Plus



Supporting material: two-coat plaster, gypsum plaster, plasterboard, fibre cement panels

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)	
		50x50; 100x40; 100x50	KERAFLEX MAXI S1	COMPULSORY for gypsum-based, anhydride or absorbent surfaces:	1 bag (25 kg) + 7,2/7,7 litres of water 1 bag (15 kg) +	C2TES1	7 m²				
	MAPEI		ULTRALITE S1	Primer G	8,4/8,7 litres of water 1 bag (15 kg) +	C2TES1	62.3	8 hours	14 days		
		100x100; 300x100	ULTRALITE S2 KERABOND +	or ECOPRIM T	5,9/6,2 litres of water 1 bag (25 kg) + 8,5 kg	C2ES2	6,3 m ²				
			ISOLASTIC		of ISOLASTIC Grey 1 bag (25	C2ES2	6,5 m ²				
\blacksquare	KERAKOLL	All sizes	H40 NO LIMITS	For gypsum-based surfaces: Primer A Eco	kg) from 7,1 to 8,8 litres of water White 1 bag (25 kg) from 7,2 to	C2 TE S1	6 m ²	20 hours	3 days	Installation with a	
For situations	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	9,5 litres of water 1 bag (25 kg) + 6 litres of water	C2TES1	5 m ²	1 day	7 days	double layer of adhesive	
in which a normal setting		50x50;100x40; 100x50	SUPERFLEX K77	For gypsum-based surfaces:	1 bag (25 kg) + 8,5 litres of water	C2TES1	6 m ²				
adhesives is recommended	LITOKOL	100x100; 300x100	CEMENTKOL K21 + LATEXKOL	Primer C	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 S2	5 m ²	8 hours	7 days		
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	For gypsum-based surfaces: PCI GISOGRUND	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2TE S2	5,5 m ²	8 hours	1 day		
	SAINT-GOBAIN		WEBER.COL PRO HP	For avacum based curfaces	1 bag (25 kg) + 7 litres of water	C2TES1		8 hours			
	/WEBER	All sizes	WEBER.COL PRO HF LIGHT	For gypsum-based surfaces: WEBER.PRIM PF15	1 bag (15 kg) + 8 litres of water	C2TE S2	5 m ²	1 day	14 days		
	ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	For gypsum-based surfaces: ARDEX P 51	1 bag (25 kg) + 1 can of ARDEX E 90 (4,5 kg) + 9 litres of water	C2T(T) E(E) S2	10 m ²	8 hours	1 day	Installation with a single-layer of adhesive (6 mm trowel)	
	50x50; 100 100x50 MAPEI	50x50; 100x40; 100x50	GRANIRAPID		Component A: 1 bag (25 kg) Component B: tub (5,5 kg)	C2FS1	6 m ²				
		.00,00	ULTRALITE S1 QUICK	COMPULSORY for gypsum- based, anhydride or absorbent	1 bag (15 kg) +	C2 FTE S1					
		100x100; 300x100		5,1/5,7 litres of water	C2 FE S2	7 m²	3 hours	1 day			
			ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FTE S2	6 m ²				
	KERAKOLL	All sizes	H40 ECO RAPIDFLEX	For gypsum-based surfaces: Primer A Eco	1 bag (25 kg) + 6,3 litres of water	C2FTE S1	6 m ²	3 hours	2 days		
For situations	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2TEF	5 m ²	6 hours	2 days	Installation with a double layer of adhesive	
in which a quick setting	LITOKOL	50x50;100x40; 100x50	LITOSTONE K99 + LATEXKOL + water	For gypsum-based surfaces:	1 bag (25 kg) + 3,5 litres of LATEXKOL + 3,5 litres of water	C2 FE S1	5 m ²	4 hours	1 day		
adhesive is recommended	LITOROL	100x100; 300x100	LITOSTONE K99 + LATEXKOL	Primer C	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 FE S2	3111	Tilouis	Tudy		
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	For gypsum-based surfaces: PCI GISOGRUND	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2TE S2	5,5 m ²	8 hours	1 day		
	SAINT- GOBAIN /	SAINT- GOBAIN / All sizes WEBER V	WEBER.COL PRO MARMO + WEBER L50	COL PRO D + WEBER L50 For old ceramic tile, marble slabs and stone: WEBER. FLOOR 4716 Prime + 6	1 bag (25 kg) + 7 litres of WEBER L50	C2FT	5 m ²	4 hours	3 days		
			WEBER.COL PRO RAPID + WEBER L50		1 bag (25 kg) + 6-6,5 litres of WEBER L50	S1		. 110413	Julys		
	ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	For gypsum-based surfaces: ARDEX P 51	1 bag (25 kg) + 3 kg of ARDEX E 90 + 7,5 litres of water	C2 FT(T) E S2	10 m²	90 min.	6 hours	Installation with a single-layer of adhesive (6 mm trowel)	

^(*) Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts")".

^(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts")".

^(***) Ratings provided directly by manufacturers, who guarantee the information given, are based on laboratory tests performed at 23° C and with a relative humidity of 50%. In the event of use in different situations or for explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

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^(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts")".

^(***) Ratings provided directly by manufacturers, who guarantee the information given, are based on laboratory tests performed at 23° C and with a relative humidity of 50%. In the event of use in different situations or for explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - Useful contacts")".

A.2b - Wall installation in interiors of ZERO.3 - 3 Plus and ZERO.3 - 5 Plus



Supporting material: concrete, old ceramic tile, marble, stone

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
		50x50; 100x40;	KERAFLEX MAXI S1		1 bag (25 kg) + 7,2/7,7 litres of water	C2 TE S1	72			
		100x50	ULTRALITE S1	If levelling is necessary, on the above mentioned	1 bag (15 kg) + 8,4/8,7 litres of water	C2 TE S1	7 m²			
	MAPEI	100x100;	ULTRALITE S2	supports, apply the following product beforehand ECOPRIM GRIP	1 bag (15 kg) + 5,9/6,2 litres of water	C2 E S2	6,3 m ²	8 hours	14 days	
		300x100	KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLA- STIC	C2 E S2	6,5 m ²			
				Not necessary, according to	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water		_			
For situations	KERAKOLL	All sizes	H40 NO LIMITS	manufacturer	White 1 bag (25 kg) from 7,2 to 9,5 litres of water	C2 TE S1	6 m ²	20 hours	3 days	Installation with a double layer of adhesive
in which a	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2TE S1	5 m ²	1 day	7 days	
normal setting adhesives is		50x50;100x40; 100x50	SUPERFLEX K77		1 bag (25 kg) + 8,5 litres of water	C2TES1	6 m ²			
recommended	LITOKOL	100x100; 300x100	CEMENTKOL K21 + LATEXKOL	Not necessary, according to manufacturer	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 S2	5 m ²	8 hours	7 days	
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	On non-absorbent supports PCI GISOGRUN 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2TE S2	5,5 m ²	8 hours	1 day	
	SAINT- GOBAIN / WEBER	All sizes	WEBER.COL PRO HP + WEBER L50	For old ceramic tile, marble slabs and stone: WEBER. FLOOR 4716 Prime	1 bag (15 kg) + 7 litres of WEBER L50	C2TES2	5 m ²	8 hours	14 days	
	ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	As an alternative for old ceramic tile, marble slabs and stone:- ARDEX P 4 - ARDEX X 77 (rough levelled)	1 bag (25 kg) + 1 can of ARDEX E 90 (4,5 kg) + 9 litres of water	C2T(T) E(E) S2	10 m ²	8 hours	1 day	Installation with a single layer of adhesive (6 mm trowel)
		50x50; 100x40; 100x50	GRANIRAPID		Component A: 1 bag (25 kg) Component B: tub (5,5 kg)	C2 F S1	6 m²			
		.00,00	ULTRALITE S1 QUICK	If levelling is necessary, on the above mentioned	1 bag (15 kg) +	C2 FTE S1				
	MAPEI	EI	ULTRALITE S2 QUICK	on the above mentioned supports, apply ECOPRIM GRIP beforehand	5,1/5,7 litres of water	C2 FE S2	7 m ²	3 hours	1 day	
		100x100; 300x100	ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FTE S2	6 m ²			
	KERAKOLL	All sizes	H40 ECO RAPIDFLEX	Not necessary, according to manufacturer	1 bag (25 kg) + 6,3 litres of water	C2FTE S1	6 m ²	3 hours	2 days	Installation with a double layer of
	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2TEF	5 m ²	6 hours	2 days	adhesive
For situations in which a quick setting	LITOKOL	50x50;100x40; 100x50	LITOSTONE K99 + LATEXKOL + water	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 3,5 litres of LATEXKOL + 3,5 litres of water	C2 FE S1	5 m ²	4 hours	1 day	
adhesive is		100x100; 300x100	LITOSTONE K99 + LATEXKOL		1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 FE S2				
recommended	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	On non-absorbent supports PCI GISOGRUN 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2TE S2	5,5 m ²	8 hours	1 day	
	SAINT- GOBAIN /	50x50; 100x40;	WEBER.COL PRO MARMO + WEBER L50	For old ceramic tile, marble slabs and stone:	1 bag (25 kg) + 7 litres of WEBER L50	C2 FT	5 m ²	4 hours	3 days	
	WEBER	100x50; 100x100 W	X40; clabs and stone:	1 bag (25 kg) + 6-6,5 litres of WEBER L50	(g) s of			.,.		
	ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	As an alternative for old ceramic tile, marble slabs and stone:- ARDEX P 4 - ARDEX X 77 (rough levelled)	1 bag (25 kg) + 3 kg of ARDEX E 90 + 7,5 litres of water	C2 FT(T) E S2	10 m ²	90 min.	6 hours	Installation with a single layer of adhesive (6 mm trowel)

^(*) Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

A.2c - Wall installation in interiors of ZERO.3 - 3 Plus and ZERO.3 - 5 Plus



Supporting material: particle board, metal

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
	MAPEI	All sizes	KERALASTIC KERALASTIC T	Not necessary, according to manufacturer	1 can (10 kg)	R2 R2T	3 m²	12 hours	7 days	Installation with a single-layer of adhesive (6 mm trowel)
	KERAKOLL	All sizes	SUPERFLEX ECO	Not necessary, according to manufacturer	1 bucket (8 kg)	R2T	3 m ²	12 hours	3 days	
	KERAKOLL	All sizes	H40 NO LIMITS	KERAGRIP ECO	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water White 1 bag (25 kg) from 7,2 to 9,5 litres of water	- C2 TE S1	6 m²	20 hours	3 days	
For situations in which a normal setting	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	3 m²	1 day	7 days	Installation with a double layer of adhesive
adhesives is recommended	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	5 days	
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Use of the following product is COMPULSORY: PCI GISOGRUN 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2TE S2	5,5 m ²	8 hours	1 day	
	SAINT- GOBAIN / WEBER	All sizes	WEBER.COL.FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	2 days	Installation with a
	ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	ARDEX P 82	1 bag (25 kg) + 1 can of ARDEX E 90 (4,5 kg) + 9 litres of water	C2T(T) E(E) S2	10 m ²	8 hours	1 day	single-layer of adhesive (6 mm trowel)
	Mapei	All sizes	KERAQUICK + LATEX PLUS	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 kg of LATEX PLUS	C2 FT S2	7 m²	3 hours	1 day	Installation with a single-layer of adhesive (6 mm trowel)
	KERAKOLL	All sizes	H40 ECO RAPIDFLEX	KERAGRIP ECO	1 bag (25 kg) + 6,3 litres of water	C2FTE S1	6 m²	3 hours	2 days	
	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	3 m²	1 day	7 days	Installation with a double layer of adhesive
For situations in which a	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	5 days	
quick setting adhesive is recommended	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Use of the following product is COMPULSORY: PCI GISOGRUN 303	1 bag (15 kg) +1 can of PCI LASTOFLEX (4 kg) +5 litres of water	C2TE S2	5,5 m ²	8 hours	1 day	
	SAINT- GOBAIN / WEBER	All sizes	WEBER.COL.FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	2 days	Installation with a
	ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	ARDEX P 82	1 bag (25 kg) + 3 kg of ARDEX E 90 + 7,5 litres of water"	C2 F(F)T E S2	10 m ²	90 min.	6 hours	single-layer of adhesive (6 mm trowel)

^(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

^(***) Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support office of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

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^{***)} Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support office of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

A.3a - Wall installation in exteriors of ZERO.3 - 3 mm



Supporting material: plaster

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
		50x50; 100x40;	KERAFLEX MAXI S1		1 bag (25 kg) + 7,2/7,7 litres of water	C2 TE S1	71	- 8 hours		
		100x50	ULTRALITE S1	Not necessary, according to	1 bag (15 kg) + 8,4/8,7 litres of water	C2 TE S1	7 m²			
	MAPEI		ULTRALITE S2	manufacturer	1 bag (15 kg) + 5,9/6,2 litres of water	C2 E S2	6,3 m ²		14 days	
		100x100	KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLA- STIC	C2 E S2	6,5 m ²			
For situations in which a normal setting adhesives is	KERAKOLL	50x50; 100x40; 100x50	H40 NO LIMITS	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water White 1 bag (25 kg) from 7,2 to 9,5 litres of water	- C2 TE S1	6 m²	20 hours	3 days	Installation with a double layer of adhesive
	KERAKOLL	100x100	, , , , , , , , , , , , , , , , , , , ,		1 bag (25 kg) water and TOP LATEX ECO as indicated by manufacturer	C2 TE S2				
recommended	LATICRETE	50x50; 100x40; 100x50; 100x100	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2TES1	5 m ²	1 day	7 days	
	LITOKOL	50x50; 100x40; 100x50	SUPERFLEX K77	Not necessary, according to	1 bag (25 kg) + 8,5 litres of water	C2TES1	6 m ²	8 hours	7 days	
	LITOROL	100x100	CEMENTKOL K21 + LATEXKOL	manufacturer	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 S2	5 m ²	Officials	7 days	
	PCI-BASF	50x50; 100x40; 100x50; 100x100	PCI NANOLIGHT	Not necessary, according to manufacturer	1 bag (15 kg) + 9 litres of water	C2TES1	5,5 m ²	8 hours	1 day	
	SAINT- GOBAIN / WEBER	50x50; 100x40; 100x50; 100x100	WEBER.COL PRO HP	Not necessary, according to manufacturer	1 bag (25 kg) + 7 litres of water	C2TES1	5 m ²	8 hours	14 days	
	ARDEX	50x50; 100x40; 100x50; 100x100	ARDEX X 77 microtec	Not necessary, according to manufacturer	1 bag (25 kg) + 11 litres of water	C2T(T) E(E) S1	10 m ²	8 hours	1 day	
	MAPEI	50x50; 100x40; 100x50	ELASTORAPID	Not necessary, according to manufacturer	Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FTE S2	6 m²			
			ULTRALITE S1 QUICK		1 bag (15 kg) + 5,1/5,7 litres of	C2 FTE S1		3 hours	1 day	
		100x100	ULTRALITE S2 QUICK		water	C2 FE S2	7 m²	_		
			KERAQUICK + LATEX PLUS		1 bag (25 kg) + 8,5 kg of LATEX PLUS	C2FTS2	5 m ²			
		50x50; 100x40; 100x50;			1 bag (25 kg) + 6,3 litres of water	C2FTE S1		6 m ² 3 hours		
	KERAKOLL	100x100	H40 ECO RAPIDFLEX	Not necessary, according to manufacturer	1 bag (25 kg) water and TOP LATEX ECO as indicated by manufacturer	C2FTE S2	6 m ²		2 days	
For situations in which a quick setting	LATICRETE	50x50; 100x40; 100x50; 100x100	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2TEF	5 m ²	6 hours	2 days	Installation with a double layer of adhesive
adhesive is recommended	LITOKOL	50x50; 100x40; 100x50		Not necessary, according to manufacturer	1 bag (25 kg) + 3,5 litres of LATEXKOL + 3,5 litres of water	C2 FE S1	5 m ²	4 hours	1 day	
-		100x100	LITOSTONE K99 + LATEXKOL		1 bag (25 kg) + 7,5 kg of LATEXKOL C2 FE S2	2				
	PCI - BASF	50x50; 100x40; 100x50; 100x100	PCI NANOLIGHT	Not necessary, according to manufacturer	1 bag (15 kg) + 9 litres of water	C2TES1	5,5 m ²	8 hours	1 day	
	SAINT- GOBAIN /	50x50; 100x40;	WEBER.COL PRO MARMO + WEBER L50	Not necessary, according to	1 bag (25 kg) + 7 litres of WEBER L50	C2 FT	5 m ²	4 hours	3 days	
	WEBER	100250-1002100		manufacturer	1 bag (25 kg) + 6-6,5 litres of WEBER L50	S1	3.11	1113413	Julys	
	ARDEX	50x50; 100x40; 100x50; 100x100	ARDEX X 77 S microtec	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 litres of water	C2 FT(T) E S1	10 m ²	90 min.	6 hours	

- (*) Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 Useful contacts").
- (**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 Useful contacts").
- (***) Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23°C and with a relative humidity of 50%. For use in different situations, contact the technical support office of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see *9 Useful contacts*).

A.3b - Wall installation in exteriors of ZERO.3 - 3 mm





Supporting material: concrete

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
		50x50; 100x40;	KERAFLEX MAXI S1		1 bag (25 kg) + 7,2/7,7 litres of water	C2 TE S1	7 m²	- 8 hours		
	MADEL	100x50	ULTRALITE S1	Not necessary, according to	1 bag (15 kg) + 8,4/8,7 litres of water	C2 TE S1	7 111-		14 do so	
	MAPEI	400 400	ULTRALITE S2	manufacturer	1 bag (15 kg) + 5,9/6,2 litres of water	C2 E S2	6,3 m ²		14 days	
		100x100	KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 E S2	6,5 m ²			
For situations in which a normal setting adhesives is recommended	KERAKOLL	50x50; 100x40; 100x50	H40 NO LIMITS	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water White 1 bag (25 kg) from 7,2 to 9,5 litres of water	C2 TE S1	6 m²	20 hours	3 days	Installation with a double layer of adhesive
		100x100			1 bag (25 kg) water and TOP LATEX ECO as indicated by manufacturer	C2 TE S2				
	. =====	50x50; 100x40; 100x50	SUPERFLEX K77	Not necessary, according to	1 bag (25 kg) + 8,5 litres of water	C2TES1	6 m ²			
	LITOKOL	100x100	CEMENTKOL K21 + LATEXKOL	manufacturer	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 52	5 m ²	8 hours	7 days	
	PCI - BASF	50x50; 100x40; 100x50; 100x100	PCI NANOLIGHT	Not necessary, according to manufacturer	1 bag (15 kg) + 9 litres of water	C2TES1	5,5 m ²	8 hours	1 day	
	SAINT- GOBAIN / WEBER	50x50; 100x40; 100x50; 100x100	WEBER.COL PRO HP + WEBER L50	Not necessary, according to manufacturer	1 bag (15 kg) + 7 litres of WEBER L50	C2TES2	5 m ²	8 hours	14 days	
	ARDEX	50x50; 100x40; 100x50; 100x100	ARDEX X 77 microtec	Not necessary, according to manufacturer	1 bag (25 kg) + 11 litres of water	C2T(T) E(E) S1	10 m ²	8 hours	1 day	
	Mapei	50x50; 100x40; 100x50	ELASTORAPID	RALITE S1 QUICK Not necessary, according to manufacturer QUICK AQUICK +	Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FTE S2	6 m ²	- 3 hours		
			ULTRALITE S1 QUICK		1 bag (15 kg) + 5,1/5,7 litres of water	C2 FTE S1			1 day	
			ULTRALITE S2 QUICK		1 bag (15 kg) + 5,1/5,7 litres of water	C2 FE S2	7 m²		,	
			KERAQUICK + LATEX PLUS		1 bag (25 kg) + 8,5 kg of LATEX PLUS	C2FTS2	5 m²			
		50x50; 100x40; 100x50;			1 bag (25 kg) + 6,3 litres of water	C2FTE S1		3 hours	2 days	
	KERAKOLL	100x100	H40 ECO RAPIDFLEX		1 bag (25 kg) water and TOP LATEX ECO as indicated by manufacturer	C2FTE S2	6 m²			
For situations in which a quick setting	LATICRETE	50x50; 100x40; 100x50; 100x100	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2TEF	5 m²	6 hours	2 days	Installation with a double layer of adhesiv
adhesive is recommended	LITOKOL	50x50; 100x40; 100x50	LITOSTONE K99 + LATEXKOL + water	Not necessary, according to manufacturer	1 bag (25 kg) + 3,5 litres of LATEXKOL + 3,5 litres of water	C2 FE S1	5 m²	4 hours	1 day	
		100x100	LITOSTONE K99 + LATEXKOL	manuaculei	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 FE S2				
	PCI - BASF	50x50; 100x40; 100x50; 100x100	PCI NANOLIGHT	Not necessary, according to manufacturer	1 bag (15 kg) + 9 litres of water	C2TES1	5,5 m ²	8 hours	1 day	
	SAINT- GOBAIN /	50x50; 100x40; 100x50; 100x100	WEBER.COL PRO MARMO + WEBER L50 No WEBER.COL PRO RAPID + WEBER L50	Not necessary, according to manufacturer	1 bag (25 kg) + 7 litres of WEBER L50	C2 FT S1	5 m²	4 hours	3 days	
	WEBER			manuacturer	1 bag (25 kg) + 6-6,5 litres of WEBER L50					
	ARDEX	50x50; 100x40; 100x50; 100x100	ARDEX X 77 S microtec	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 litres of water	C2FT(T) ES1	10 m ²	90 min.	6 hours	

^(*) Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

^(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

^(***) Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23°C and with a relative humidity of 50%. For use in different situations, contact the technical support office of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

A.4a - Wall installation in exteriors of ZERO.3 - 3 Plus and ZERO.3 - 5 Plus



Supporting material: plaster

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
		50-50-100-40	KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 E S2	5 m²			
	MAPEI	50x50; 100x40; 100x50	ULTRALITE S2	Not necessary, according to manufacturer	1 bag (15 kg) + 5,9/6,2 litres of water	C2ES2	3 m²	8 hours	14 days	
		100x100; 300x100	KERALASTICT		1 can (10 kg)	R2T	2,5 m ²	12 hours	7 days	
		50x50; 100x40;			Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water	C2 TE S1				
T	KERAKOLL	100x50	H40 NO LIMITS	Not necessary, according to manufacturer	White 1 bag (25 kg) from 7,2 to 9,5 litres of water		6 m ²	20 hours	3 days	
For situations in which a		100x100			1 bag (25 kg) water and TOP LATEX ECO as indicated by manufacturer	C2TE S2				Installation with a double layer of adhesive
normal setting adhesives is	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2TES1	5 m²	1 day	7 days	
recommended	LITOKOL	All sizes	CEMENTKOL K21 + LATEXKOL	Not necessary, according to manufacturer	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 S2	5 m ²	8 hours	7 days	
	PCI-BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Not necessary, according to manufacturer	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2TE S2	5,5 m ²	8 hours	1 day	
	SAINT- GOBAIN / WEBER	All sizes	WEBER.COL PRO HP + WEBER L50	Not necessary, according to manufacturer	1 bag (15 kg) + 7 litres of WEBER L50	C2TES2	5 m ²	8 hours	14 days	
	ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	Not necessary, according to manufacturer	1 bag (25 kg) + 1 can of ARDEX E 90 (4,5 kg) + 9 litres of water	C2T(T) E(E) S2	10 m ²	8 hours	1 day	
		50x50; 100x40; 100x50	ULTRALITE S2 QUICK	Not necessary, according to manufacturer	1 bag (15 kg) + 6 litres of water	C2 FE S2	4 m²		2 days	
	MAPEI	100x100; 300x100	KERAQUICK + LATEX PLUS		1 bag (25 kg) + 8,5 kg of LATEX PLUS	C2FTS2	5 m²	3 hours	1 day	
		50x50; 100x40; 100x50;			1 bag (25 kg) + 6,3 litres of water	C2FTE S1				
<u> </u>	KERAKOLL	100x100	H40 ECO RAPIDFLEX	Not necessary, according to manufacturer	1 bag (25 kg) water and TOP LATEX ECO as indicated by manufacturer	C2FTE S2	6 m²	3 hours	2 days	
For situations	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2TEF	5 m2	6 hours	2 days	Installation with a
in which a quick setting	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL	Not necessary, according to manufacturer	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 FE S2	5 m ²	4 hours	1 day	double layer of adhesive
adhesive is recommended	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Not necessary, according to manufacturer	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2TE S2	5,5 m ²	8 hours	1 day	
	SAINT- GOBAIN /	ORAIN / 50X50; 100X40;		Not necessary, according to manufacturer	1 bag (25 kg) + 7 litres of WEBER L50	C2 FT S1	5 m²	4 hours	3 days	
	WEBER	100x50; 100x100	WEBER.COL PRO RAPID + WEBER L50	manufacturer ·	1 bag (25 kg) + 6-6,5 litres of WEBER L50	31			- 30,5	
	ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	Not necessary, according to manufacturer	1 bag (25 kg) + 3 kg of ARDEX E 90 + 7,5 litres of water	C2FT(T) ES2	10 m ²	90 min.	6 hours	

(*) Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

A.4b - Wall installation in exteriors of ZERO.3 - 3 Plus and ZERO.3 - 5 Plus





Supporting material: concrete

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
		50x50: 100x40:	KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 E S2	5 m ²			
	MAPEI	100x50	ULTRALITE S2	Not necessary, according to manufacturer	1 bag (15 kg) + 5,9/6,2 litres of water	C2ES2	3 m²	8 hours	14 days	
		100x100; 300x100	KERALASTICT		1 can (10 kg)	R2T	2,5 m ²	12 hours	7 days	
		50x50; 100x40;			Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water	C2TE S1				
	KERAKOLL	100x50	H40 NO LIMITS	Not necessary, according to manufacturer	White 1 bag (25 kg) from 7,2 to 9,5 litres of water	CZTZST	6 m ²	20 hours	3 days	
For situations in which a		100x100			1 bag (25 kg) water and TOP LATEX ECO as indicated by manufacturer	C2TE S2				Installation with a double layer of adhesive
normal setting adhesives is	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2TE S1	5 m ²	1 day	7 days	
recommended	LITOKOL	All sizes	CEMENTKOL K21 + LATEXKOL	Not necessary, according to manufacturer	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 S2	5 m ²	8 hours	7 days	
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Not necessary, according to manufacturer	1 bag (15 kg) +1 can of PCI LASTOFLEX (4 kg) +6 litres of water	C2TE S2	5,5 m ²	8 hours	1 day	
	SAINT- GOBAIN / WEBER	All sizes	WEBER.COL PRO HP + WEBER L50	Not necessary, according to manufacturer	1 bag (15 kg) + 7 litres of WEBER L50	C2TE S2	5 m ²	8 hours	14 days	
	ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	Not necessary, according to manufacturer	1 bag (25 kg) + 1 can of ARDEX E 90 (4,5 kg) + 9 litres of water	C2T(T) E(E) S2	10 m ²	8 hours	1 day	
	MAPEI	50x50; 100x40; 100x50	ULTRALITE S2 QUICK	QUICK Not necessary, according to manufacturer	2 days					
		100x100; 300x100	KERAQUICK+ LATEX PLUS		1 day					
		50x50; 100x40; 100x50;			1 bag (25 kg) + 6,3 litres of water	C2FTE S1		3 hours		Installation with a double layer of adhesive
	KERAKOLL	100x100	H40 ECO RAPIDFLEX	Not necessary, according to manufacturer	1 bag (25 kg) water and TOP LATEX ECO as indicated by manufacturer	C2FTE S2	6 m²		2 days	
For situations in which a	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2TEF	5 m²	6 hours	2 days	double layer of duriesive
quick setting adhesive is	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL	Not necessary, according to manufacturer	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 FE S2	5 m ²	4 hours	1 day	
recommended	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Not necessary, according to manufacturer	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 6 litres of water	C2TE S2	5,5 m ²	8 hours	1 day	
	SAINT- GOBAIN / WEBER	All sizes	WEBER.COL.FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m²	12 hours	2 days	Installation with a single layer of adhesive (6 mm trowel)
	ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	Not necessary, according to manufacturer	1 bag (25 kg) + 3 kg of ARDEX E 90 + 7,5 litres of water	C2 FT(T) E S2	10 m ²	90 min.	6 hours	Installation with a double layer of adhesive

^(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

^(***) Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23°C and with a relative humidity of 50%. For use in different situations, contact the technical support office of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

^(*) Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

^(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

^{***} Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support office of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

A.5a - Floor installation in interiors/exteriors* of ZERO.3 - 3 Plus and ZERO.3 - 5 Plus



Supporting material: cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tile, marble slabs, stone

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Setting for foot traffic and workability (***)	Ready for use (***)	Installation (*)
		50x50;100x40;	KERAFLEX MAXI S1		1 bag (25 kg) + 7,2/7,7 litres of water	C2 TE S1		1 day		
		100x50	ULTRALITE S1		1 bag (15 kg) + 8,4/8,7 litres of water	C2TE S1	3,5 m ²	8 hours		
	MAPEI	100×100;	ULTRALITE S2	COMPULSORY for gypsum- based, anhydride or absorbent surfaces: Primer G or ECOPRIM T For non-absorbent supports: ECOPRIM GRIP	1 bag (15 kg) + 5,9/6,2 litres of water	C2 E S2			14 days	
	MALEI	300x100	KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 E S2	5 *** 2	1 4	14 days	
		For heated	KERABOND + ISOLASTIC		1 bag (25 kg) + 8,5 kg of ISOLASTIC	C2 E S2	5 m²	1 day		
		screeds:All sizes	ULTRALITE S2		1 bag (15 kg) + 5,9/6,2 litres of water	C2 E S2	3,5 m ²			
		_		For gypsum-based surfaces:	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water					
	KERAKOLL	All sizes	H40 NO LIMITS	Primer A Eco	White 1 bag (25 kg) from 7,2 to 9,5 litres of water	C2TES1	6 m ²	1 day	3 days	Installation with a double layer of adhesive
For situations in which a normal	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2TES1	5 m ²	1 day	7 days	
setting adhesives is recommended		50x50;100x40; 100x50	SUPERFLEX K77		1 bag (25 kg) + 8,5 litres of water	C2 TE S1				
	LITOKOL	100x100; 300x100	CEMENTKOL K21 + LATEXKOL	For anhydrite screeds: Primer C	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 52	5 m ²	8 hours	7 days	
		For heated screeds:All sizes	LAILANOL		1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 52				
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	If support is anhydrite-based: PCI GISOGRUND On old, non-absorbent floors: PCI GISOGRUND 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m ²	8 hours	1 day	
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL PRO HP + WEBER L50	For anhydrite- or calcium sulphate-based surfaces: WEBER.PRIM PF15	1 bag (15 kg) + 7 litres of WEBER L50	C2TES2		8 hours	14 days	
		For interiors only: 50x50;100x40; 100x50; 100x100	WEBER.COL PRO HF LIGHT		1 bag (15 kg) + 8 litres of water	C2 TE S2	5 m ²	1 day	14 days	
	ARDEX	All sizes	ARDEX X 78 microtec + ARDEX E 90	For gypsum- and anhydrite- based, absorbent or polished surfaces: ARDEX P 51	1 bag (25 kg) + 1 can of ARDEX E 90 (4,5 kg) + 9 litres of water	C2 E(E) S2	6 m ²	8 hours	1 day	Installation with a single layer of adhesive (trowel with 10 mm tilted teeth or ARDEX Microtec trowel)
	MAPEI	50x50;100x40; 100x50	GRANIRAPID	COMPULSORY for gypsum- based, anhydride or absorbent surfaces: Primer G or ECOPRIM T For non-absorbent supports: ECOPRIM GRIP	Component A: 1 bag (25 kg) Component B: tub (5,5 kg)	C2 F S1	4 m²			
		100x50	ULTRALITE S1 QUICK		1 bag (15 kg) + 5,1/5,7 litres of water	C2 FTE S1	3,5 m ²			
		100,100, 200,100	ULTRALITE S2 QUICK		1 bag (15 kg) + 5,1/5,7 litres of water	C2 FE S2	_			
		100x100; 300x100	ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FTE S2	4 m²	3 hours	1 day	
		For heated screeds: 50x50;100x40; 100x50	ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6,5 kg)	C2 FTE S2				
		For heated screeds: 100x100; 300x100	KERAQUICK + LATEX PLUS		1 bag (25 kg) + 8,5 kg of LATEX PLUS"	C2 FT S2	5 m ²			
	KERAKOLL	All sizes	H40 ECO RAPIDFLEX	For gypsum-based or anhydride surfaces: Primer A Eco	1 bag (25 kg) + 6,3 litres of water	C2F TE S1	6 m²	3 hours	2 days	Installation with a double layer of adhesive
	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
For situations in which a quick setting adhesive		50x50; 100x40; 100x50	LITOSTONE K99 + LATEXKOL + water		1 bag (25 kg) + 3,5 litres of LATEXKOL + 3,5 litres of water	C2 FE S1				
is recommended	LITOKOL	100x100; 300x100	LITOSTONE K99 +	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 7,5 kg of LATEXKOL	C2 FE S2	5 m ²	4 hours	1 day	
		For heated screeds: all sizes	LATEXKOL		1 bag (25 kg) + 7,5 kg of LATEXKO	C2 FE S2				
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	If support is anhydrite-based: PCI GISOGRUND On old, non-absorbent floors: PCI GISOGRUND 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m ²	8 hours	1 day	
	CAINT CORNEY		WEBER.COL PRO MARMO + WEBER L50	For anhydrite- or calcium	1 bag (25 kg) + 7 litres of WEBER L50					
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL PRO RAPID + WEBER L50	sulphate-based surfaces: WEBER.PRIM PF15	1 bag (25 kg) + 6-6,5 litres of WEBER L50	C2 FT S1	5 m²	4 hours	3 days	
	ARDEX	All sizes	ARDEX X 78 S microtec + ARDEX E 90	For gypsum- and anhydrite- based, absorbent or polished surfaces: ARDEX P 51	1 bag (25 kg) + 3 kg of ARDEX E 90 + 7 litres of water	C2 FE S2	6 m²	90 min.	6 hours	Installation with a single layer of adhesive (trowel with 10 mm tilted teeth or ARDEX Microtec trowel)

A.5b - Floor installation in interiors/exteriors* of ZERO.3 - 3 Plus and ZERO.3 - 5 Plus



Supporting material: wood, PVC, rubber, linoleum, metal, resin

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Setting for foot traffic and workability (***)	Ready for use (***)	Installation (*)
	MAPEI	All sizes	KERALASTIC	Not necessary, according	1 can (10 kg)	R2	2,5 m ²	12 hours	7 days	
	MAPE	All sizes	KERALASTICT	to manufacturer	(Call (10 kg)	R2T	2,3111	12 Hours	7 udys	
		All sizes in	H40 NO LIMITS	Grey 1 bag (25 kg) from 7,1 to 8,8 litres of water	C2 TF C1	C2TE S1	6 m ²	24 h	2 do	
	KERAKOLL	interiors	H40 NO LIMITS	White 1 bag (25 kg) from 7,2 to 9,5 litres of water	C2 TE S1 C2	CZIESI	6 M-	24 hours	3 days	Installation with a
		All sizes	SUPERFLEX ECO	Not necessary, according to manufacturer	1 bucket (8 kg)	R2T	3 m ²	1 day	3 days	double layer of adhesive
For situations in which a normal setting adhesives is recommended	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	3 m²	1 day	5 days	
	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	5 days	
	PCI - BASF	All sizes	PCI COLLASTIC	Not necessary, according to manufacturer	3 kg bucket (A+B)	R2T	1,5 m ²	12 hours	1 day	Installation with a single layer of adhesive (trowel wit 10 mm tilted teeth
	SAINT- GOBAIN / WEBER	All sizes	WEBER.COL.FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m²	12 hours	2 days	
	ARDEX	All sizes	ARDEX X 78 microtec + ARDEX E 90	ARDEX P 82	1 bag (25 kg) + 1 can of ARDEX E 90 (4,5 kg) + 9 litres of water	C2 E(E) S2	6 m²	8 hours	1 day	Installation with a single layer of adhesive (trowel with 10 m tilted teeth or ARD Microtec trowel
	MAPEI	All sizes	KERAQUICK + LATEX PLUS	Not necessary, according to manufacturer	1 bag (25 kg) + 8,5 kg of LATEX PLUS	C2 FT S2	2,5 m ²	3 hours	1 day	
	KERAKOLL	AKOLL All sizes	H40 ECO RAPIDFLEX	PRIMER A ECO or KERAGRIP ECO depending on support	1 bag (25 kg) + 6,3 litres of water	C2FTE S1	6 m²	3 hours	2 days	
			SUPERFLEX ECO	Not necessary, according to manufacturer	1 bucket (8 kg)	R2T	3 m ²	1 day	3 days	Installation with
	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	3 m²	1 day	5 days	double layer o adhesive
For situations in which a	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	7 days	
quick setting adhesive is	PCI - BASF	All sizes	PCI COLLASTIC	Not necessary, according to manufacturer	3 kg bucket (A+B)	R2T	1.5 m ²	3 hours	12 hours	Installation with
recommended	SAINT- GOBAIN / WEBER	All sizes	WEBER.COL.FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m²	12 hours	2 days	a single layer of adhesive (trowel w 10 mm tilted teet
	ARDEX	All sizes	ARDEX X 78 S microtec + ARDEX E 90	ARDEX P 82	1 bag (25 kg) + 3 kg of ARDEX E 90 + 7 litres of water	C2 FE S2	6 m ²	90 min.	6 hours	Installation with a single layer of adhesive (trowel with 10 m tilted teeth or ARD Microtec trowel

^(*) Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally impervious. The use of sizes that are not larger than 50x50 cm is recommended.

[&]quot;) Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

^(**) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

^(***) Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23°C and with a relative humidity of 50%. For use in different situations, contact the technical support office of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - Useful contacts").

Annotations

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Quality management system.



Environmental management systems of production sites.





Panariagroup Industrie Ceramiche S.p.A. is a member of the U.S. Green Building Council and Green Building Council Italia.





PARTNER CASACLIMA.





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Technical manual ZERO3®

