



Laying of floors and coverings

Porcelain tiles, ceramics
tiles and natural stones

Technical guide for
the building site

kerakoll

Innovation at the service of laying professionals.

Our challenge has always been to meet the needs of laying professionals with **innovative technologies and solutions** to guarantee the most modern and advanced ceramic and natural stone floors and coverings, from large formats to designer mosaics.

Kerakoll is at the forefront when it comes to laying systems. **For over 50 years now, its products and technologies have been chosen and used every day on the world's most prestigious building sites** because they meet the demands of designers and laying professionals, even in the most challenging situations.

Ceramic surfaces made with Kerakoll laying systems offer unique technical and aesthetic performance and guarantee the best quality, maximum safety and high living comfort.

We are committed to making increasingly advanced, sustainable and durable products that are easy and safe to apply, to guaranteeing performance reliability from the laboratory to the building site and sustainability of the operation over time.

Quality, well-being and environmental protection are the values that guide all Kerakoll's actions. This is why we aim to develop building solutions and technologies that combine sustainable quality with the highest technical performance.

The health of future generations and tomorrow's world also depends on us, on the sustainable choices we are making every day.

Gel-Technology: innovation that makes a difference.

Gel-Technology is the pillar on which the reliability of Kerakoll's range of laying products is based.

It is a new and exclusive technical-scientific research that studies the behaviour of natural elements and eco-friendly raw materials through their interactions and the control of rheology. It formulates innovative solutions that ensure the perfect balance between final performance and ease of use on site.

Revolutionising technical culture, Gel-Technology focuses on the durability of the whole laying system by meeting both performance and application parameters. It ensures that laboratory results are replicated on the building site and maintained when the product is used in order to achieve a sustainable impact linked to the project's entire life-cycle.

It is a complex, multidisciplinary approach that guarantees the highest technical standards while ensuring maximum ease of use, easy working conditions and maximum safety for state-of-the-art applications while allowing for errors in execution to be minimised. The durability of its solutions fosters conditions that allow us to live in safer, healthier and more beautiful environments.



H40 range: the revolution in the laying of ceramics and natural stones.

H40

H40 is the revolutionary range of structural Gel-Adhesives with variable flexibility for bonding ceramic tiles and natural stones of any thickness and size, even in extreme conditions.

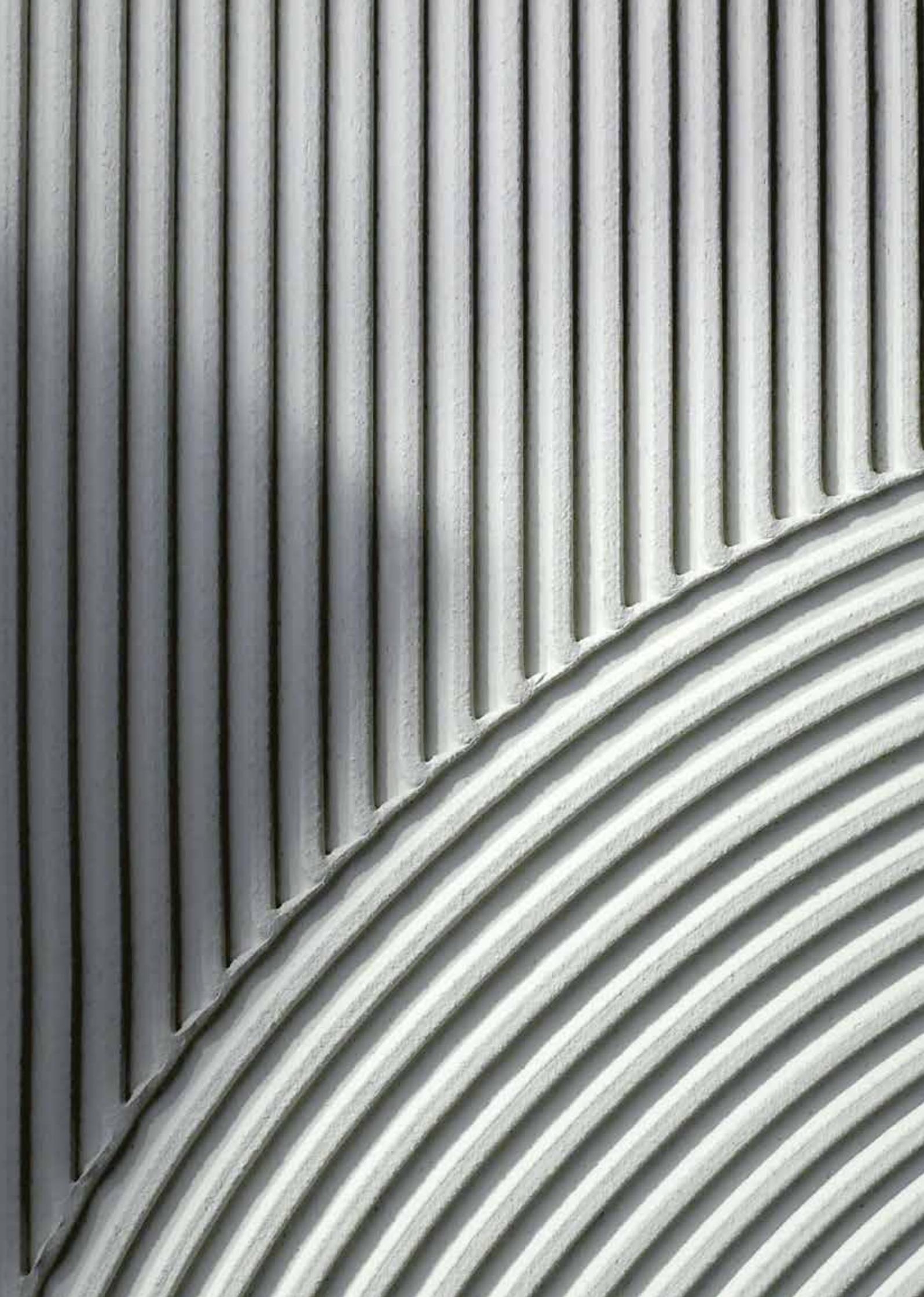
The innovative gel-like mixture has made a break from traditional adhesives. It is the pillar on which the high performance of H40 is based and is capable of guaranteeing the best results, ease of application on site and durability over time of the entire laying system.

The Gel-Adhesives of the H40 range are the right solution for every situation because they ensure performance levels above the limits of the Standard with any type of material and on any type of substrate. Moreover, thanks to the introduction of special additives that increase flexibility, they are tested to withstand all stresses acting on the tiled system in a calibrated manner.

The thixotropic and fluid mixture is suitable for all building site requirements; it guarantees total wettability of the back of the tile, which is fundamental to obtain a full-bed adhesive.

The extreme fluidity under the spreader and the extended open time ensure easy working conditions and maximum safety even when laying large ceramic slabs whose procedures, such as handling and back buttering, need extended times for laying professionals.





Aquastop Green

Anti-cracking waterproof membrane with high adhesion for balconies, terraces and horizontal surfaces before the laying of ceramic tiles, natural stones and hardwood floors; it creates a waterproof surface even when overlaid on cracked supports, supports that have not been perfectly cured or supports that might contain vapour pressure due to residual substrate moisture content.

The only high-tenacity HDPE triple-layer membrane.



Aquastop Nanogum

Reactive waterproofing product with high chemical resistance and high adhesion and flexibility.

Aquastop Nanogum develops a soft mixture for application using either a spreader or a roller, giving high levels of adhesion on any type of regulation wall or flooring substrate and high levels of compatibility with all types of tile adhesives.

- **Ideal for use prior to laying with reactive adhesives and particularly with H40 Extreme**
- **For internal and external floors and walls**
- **Permanently elastic**
- **High levels of chemical resistance**
- **Crack-Bridging Ability**
- **Suitable for terraces, balconies, bathrooms and swimming pools**





Substrate preparation: high-tech self-levelling products.

Planogel Rheo

Planogel Rheo is the first certified self-levelling gel, for thicknesses from 1 to 30 mm, based on non-irritating raw materials with low environmental impact, designed to ease the work of application professionals and guarantee maximum flexibility of use. When applied to self-levelling products, Gel-Technology makes it possible to obtain the first universal product with variable rheology and viscosity, ideal for all surfaces and laying conditions.

Long self-levelling time, resistance, compactness, surface quality and evenness ensure the best substrate preparation before laying even on large surface areas, and always guarantee the application professional a job well done.

The first self-levelling compound for ceramic tile laying professionals. The only guarantee for a perfectly even surface.





Adhesion promoters: Active technology.

Universal raw material with low Tg available in two versions.

Active Prime Fix

Rapid universal adhesion promoter for self-levelling products, cement-based adhesives, finishing products and plasters/renders. Single-component, water-based, for internal and external use.



Active Prime Grip

Rapid universal adhesion promoter for self-levelling products, cement-based adhesives, finishing products and plasters/renders. Quartz finish. Single-component, water-based, for internal and external use.



The active cross-linking of Kerakoll's Active Prime Fix and Active Prime Grip adhesion promoters develops total compatibility with absorbent and non-absorbent substrates, and guarantees maximum adhesion when overlaying with cement- and gypsum-based mineral products.

Quick-drying, ready-to-use products, they favour the application of finishing products, levelling products, plasters/renders, cement-based adhesives and decorative coverings on smooth substrates. Suitable to neutralize the expansive chemical reaction of gypsum- and anhydrite-based substrates in contact with self-levelling products, mineral adhesives, finishing products and plasters/renders.



Grouting: resin-cement technology.

Fugabella Color

Decorative resin-cement for the grouting of ceramic tiles, mosaics and natural stones. Easy-to-work, high aesthetic finish.

Fugabella Color achieves performance characteristics such as water-repellence, very low water absorption, high surface hardness, high resistance to the most common acidic substances and total colour uniformity.

Fugalite Color

Waterproof decorative resin for the grouting and bonding of ceramic tiles, mosaics and natural stones. Easy to clean, stain-proof.

Fugalite Color is water- and stain-proof, liquid ceramic for joints; it ensures high chemical and mechanical resistance and guarantees the aesthetic and functional continuity of ceramic surfaces.

Silicone Color

Decorative sealant for ceramics, mosaics and swimming pools. Silicone Color develops a high degree of adhesion to non-absorbent surfaces, guaranteeing the integrity and watertightness of ceramic and porcelain coverings subject to deformation.

Neutro Color

Decorative sealant for marble and natural stones. Neutro Color develops neutral reticulation with no unstable, migrant components, guaranteeing a perfect seal with no streaking or stains on the delicate surfaces of marbles and natural stones.

Silmat Color

Ultra-matt, elastic decorative sealant. Silmat Color develops a high degree of adhesion on porous and non-porous substrates, in all conditions, ensuring integrity and hydraulic tightness of coverings being subject to deformation.





The best possible products to build better places to live.

Quality, the well-being of people in their living spaces and protecting the environment are the guiding principles of Kerakoll's philosophy.

Kerakoll Group is a multinational company operating in the construction industry, offering an integrated range of products and services to build better places to live. Kerakoll today has three Business Units, focused on Tile Installation, Construction and Surfaces.

Kerakoll is a Benefit Corporation and in 2023 obtained the B Corp certification, confirming the journey towards a new ESG business model generating economic, social and environmental value.

Among the most appreciated aspects that emerged from B Corp's assessment of Kerakoll were the reduction in the use of chemicals, low emissions of Volatile Organic Compounds (VOC), the use of recycled materials and sustainable logistics favouring intermodal transport systems.

In order to achieve the highest possible quality standards in compliance with international rules and regulations, Kerakoll has established an integrated management system for ISO 9001 quality. It pushes the company to search for ever more efficient processes, to create sustainability-driven synergy with our suppliers and to offer continuous training of its associates. In addition to the rigorous qualification plans aimed at certifying product performance (CE marking, CE MED, CSTB) and quantifying its environmental sustainability (EPD), Kerakoll has implemented additional tools, such as the GreenBuilding Rating, to offer customers objectively quantitative indicators of its commitment to product sustainability.

The Kerakoll system combines the "Total Quality Management" and "Life Cycle Thinking" approaches, thus confirming Kerakoll's commitment in certifying its products from the sourcing of raw materials with low environmental impact to their performance on site. This allows the company to offer customers the possibility to construct quality, sustainable buildings (CAM Minimum Environmental Criteria, LEED and other protocols).

B Corp

B Corp certification – issued by the international body B Lab – recognises organisations that undertake to comply with standards in terms of social and environmental performance, as well as transparency and responsibility. These certified organisations strive to make a measurable improvement in the positive impact they have on their employees, their community and the environment.

They are also committed to an on-going evolution of their practices and processes, and to pursuing a culture based on inclusion and regeneration.



For Kerakoll quality means safety, sustainability and product performance.

Environmental Product Declarations

The environmental performance of Kerakoll's products is described in the EPD documents developed within our certified EPD Process system. The EPD represents the verified environmental identity card of products and provides a comprehensive and reliable overview of potential environmental impacts during their life cycle. Underlying the EPD, which is a globally recognised tool, is the Life Cycle Assessment (LCA) approach for quantifying the system's effects on the environment in order to monitor and improve them.



Indoor air quality

The health of operators and people in general is one of the main criteria behind the design of our products. In order to assess the indoor air quality of the environments in which our products are used and ensure their healthiness, we perform tests in accordance with the strictest international measurement standards. In addition, we are constantly looking for new raw materials in order to reduce danger levels and ensure zero- or low-emission products for our customers.



Sustainable building certifications

We promote a design approach oriented towards sustainability and energy saving in buildings. To consolidate and increase the added value of our solutions with respect to eco-design, we analyse and map our products so that they can achieve specific building scores, in line with the highest voluntary certification criteria recognised worldwide.



ecobau



Markings and certifications

We test our products according to the highest performance standards of marking and certification. In addition to the mandatory circulation requirements for individual markets, we subject our products to stringent testing of the most significant technical characteristics for each product range, in order to guarantee the highest recognised international standards.



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Laying on cement-based screed.

The ideal solution for installing the laying system on existing floor slabs.

- When laying on existing screeds, check that the screeds are suitable for laying
- Provide adequate acoustic insulation where necessary
- Respect all existing joints



Expansion joints

application tools

5

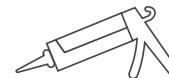


Silmat Color*

Ultra-matt decorative sealant.

*Check the colour palette. If the desired colour is not available, use Silicone Color.

Coverage
see data sheet



Grouting

4



Fugabella Color

Decorative resin-cement for the grouting of ceramic tiles, mosaics and natural stones.

Coverage
see data sheet



Tile laying

3



H40 Gel

Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.

Coverage
≈ 1.25 kg/m²
per mm of thickness



Substrate

2



Keracem Eco Pronto

Ready-to-use, normal-setting and rapid-drying mineral screed to be covered with adhesives.

Preparation of the
screed
≈ 16 - 18 kg/m²
per cm of thickness



1



Tapetex

Compressible, closed-cell expanded polyethylene tape for perimeter and desolidarisation joints.

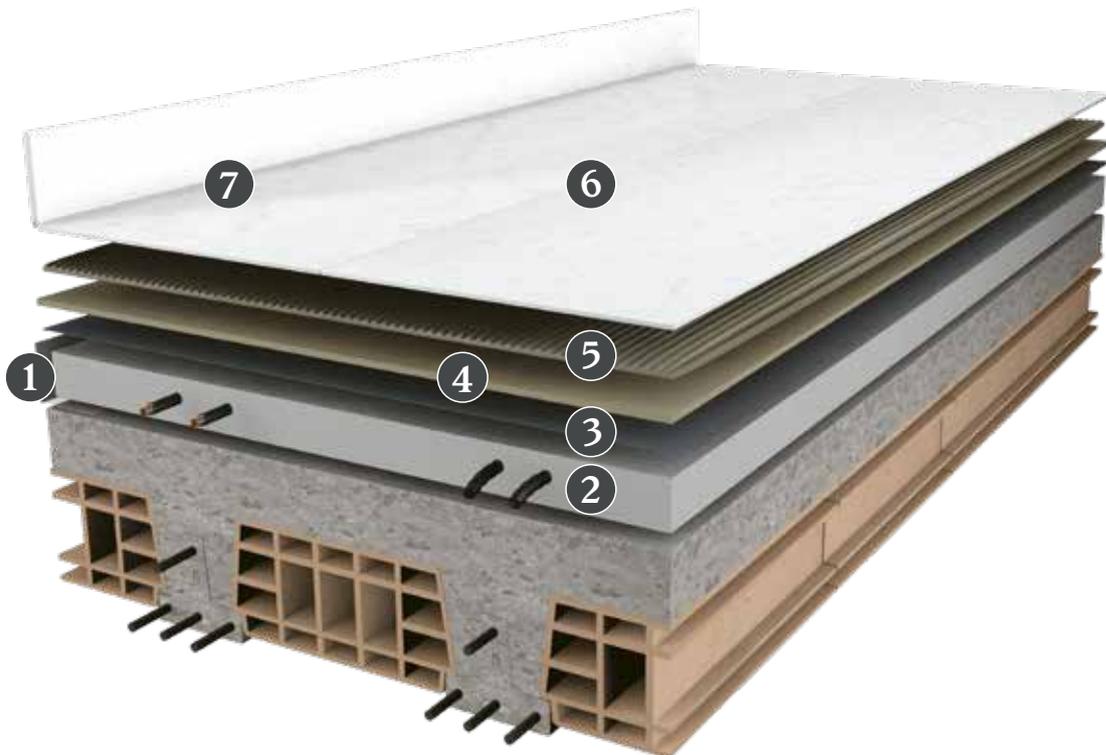
Roll 50 m

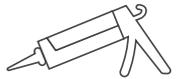
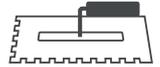
The screed must be desolidarised around the perimeter. In order to do so, lay the Tapetex compressible tape along the whole perimeter, on the walls and on any other vertical elements protruding from the supporting layer.

Laying of large-format slabs.

The ideal solution for laying large formats with reduced thickness or thickened large-format slabs.

- Perfectly even substrates are required for the correct laying of large-format slabs
- It is recommended to bond using the back buttering technique; the trowel ridges should run in the direction of the slab's short side
- Once the adhesive has been applied, it is recommended to proceed with taping and/or vibrating the slabs in order to facilitate air escape



			application tools
7		<p>Expansion joints</p> <p>Silmat Color*</p> <p>Ultra-matt decorative sealant.</p> <p>*Check the colour palette. If the desired colour is not available, use Silicone Color.</p>	<p>Coverage see data sheet</p> 
6		<p>Grouting</p> <p>Fugabella Color</p> <p>Decorative resin-cement for the grouting of ceramic tiles, mosaics and natural stones.</p>	<p>Coverage see data sheet</p> 
5		<p>Tile laying</p> <p>H40 Gel*</p> <p>Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.</p> <p>* Alternatively use H40 Tech</p>	<p>Coverage ≈ 1.25 kg/m² per mm of thickness</p> 
4		<p>Substrate</p> <p>Planogel Rheo</p> <p>Self-levelling gel with variable rheology and viscosity. Prolonged workability and reduced waiting times before laying.</p>	<p>Coverage ≈ 1.6 kg/m² per mm of thickness</p> 
3		<p>Active Prime Fix</p> <p>Rapid universal adhesion promoter for self-levelling products, cement-based adhesives, finishing products and plasters/renders. Single-component, water-based, for internal and external use.</p>	<p>Coverage ≈ 0.1 - 0.2 kg/m²</p> 
2		<p>Keracem Eco Pronto</p> <p>Ready-to-use, normal-setting and rapid-drying mineral screed to be covered with adhesives.</p>	<p>Preparation of the screed ≈ 16 - 18 kg/m² per cm of thickness</p> 
1		<p>Tapetex</p> <p>Compressible, closed-cell expanded polyethylene tape for perimeter and desolidarisation joints.</p>	<p>Roll 50 m</p>

The screed must be desolidarised around the perimeter. In order to do so, lay the Tapetex compressible tape along the whole perimeter, on the walls and on any other vertical elements protruding from the supporting layer.

Laying on anti-fracture and anti-cracking membranes.

The ideal solution in case of renovations, overlaying on old cracked floors presenting dynamic or unstable cracks.

- Specifically for cancelling out cracks, joints and chases in the substrates
- It compensates for hygrometric shrinkage stress in uncured substrates
- Allows any laying design
- Practical and fast, immediately accessible to foot traffic
- High-strength HDPE core



Expansion joints

application tools

5

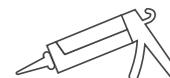


Silmat Color*

Ultra-matt decorative sealant.

*Check the colour palette. If the desired colour is not available, use Silicone Color.

Coverage
see data sheet



Grouting

4



Fugabella Color

Decorative resin-cement for the grouting of ceramic tiles, mosaics and natural stones.

Coverage
see data sheet



Tile laying

3



H40 Gel

Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.

Coverage
≈ 1.25 kg/m²
per mm of thickness



Desolidarisation

2



Aquastop Green

Anti-cracking waterproof membrane with high adhesion for balconies, terraces and horizontal surfaces before the laying of ceramic tiles, natural stones and hardwood floors; it creates a waterproof surface even when overlaid on cracked supports, supports that have not been perfectly cured or supports that might contain vapour pressure due to residual substrate moisture content.

Coverage 23 m² with
1 roll 20 m



1



H40 Gel

Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.

Coverage
≈ 1.25 kg/m²
per mm of thickness

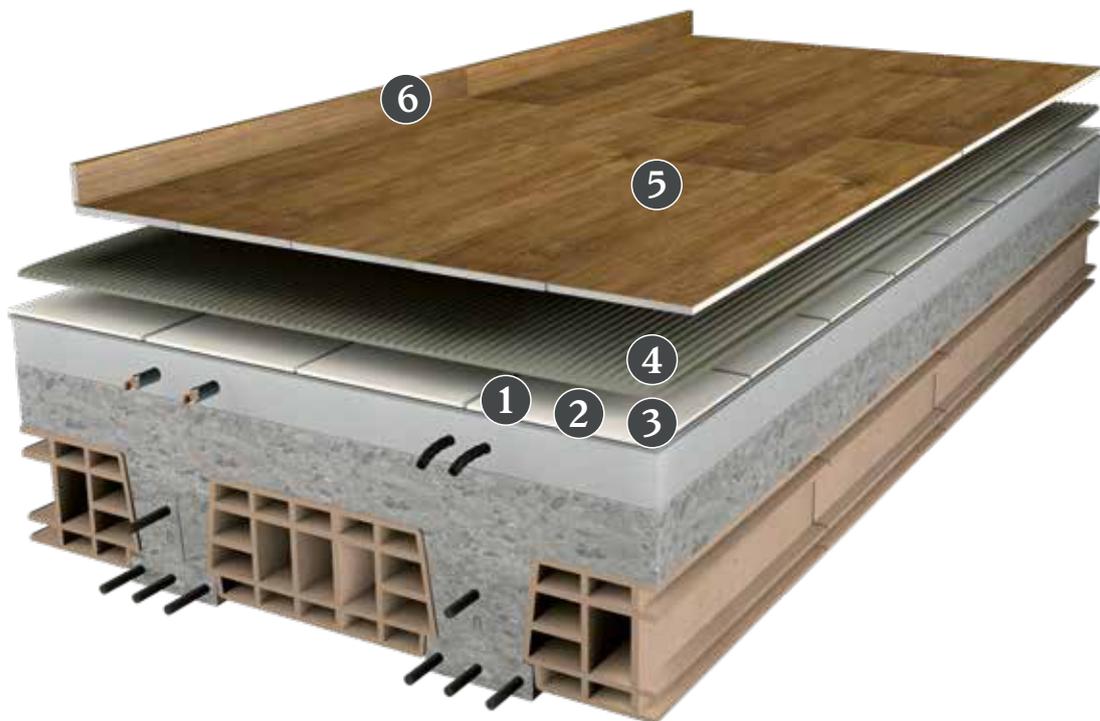


All substrates must be level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising.

Overlaying on existing floor.

Ideal solution in case of renovations and overlaying on old stable floors.

- Guarantees safe laying on existing floors
- Ideal in renovation work
- Reduces operation times
- Avoids the costs and inconvenience of removal and disposal



Expansion joints

application tools

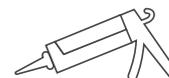


Silmat Color*

Ultra-matt decorative sealant.

*Check the colour palette. If the desired colour is not available, use Silicone Color.

Coverage
see data sheet



Grouting



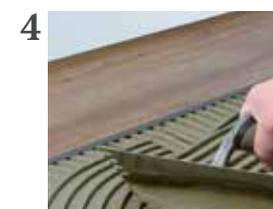
Fugabella Color

Decorative resin-cement for the grouting of ceramic tiles, mosaics and natural stones.

Coverage
see data sheet



Tile laying



H40 Gel

Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.

Coverage
≈ 1.25 kg/m²
per mm of thickness



All substrates must be level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising.
Provide adequate cleaning and/or surface abrasion of the existing floor where necessary.

Optional: substrate levelling



Planogel Rheo

Self-levelling gel with variable rheology and viscosity. Prolonged workability and reduced waiting times before laying.

Coverage
≈ 1.6 kg/m²
per mm of thickness



Tapetex Plus

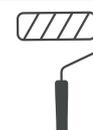
Compressible, closed-cell expanded polyethylene tape with fibre support for low-thickness perimetric joints of desolidarisation. With very low volatile organic compound emissions.



Active Prime Fix

Rapid universal adhesion promoter for self-levelling products, cement-based adhesives, finishing products and plasters/renders. Single-component, water-based, for internal and external use.

Coverage
≈ 0.1 - 0.2 kg/m²



Laying in internal applications

Rapid laying in areas with heavy traffic.

The ideal solution for shopping centres and in any situation requiring speed of execution.

- Guarantees safe laying in areas subject to high levels of stress
- Ensures high resistance to static and dynamic loads
- Ensures adequate resistance to chemical attacks
- Fast completion of work



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Fractionizing/expansion joints

application tools

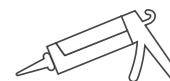


Silmat Color*

Ultra-matt decorative sealant.

*Check the colour palette. If the desired colour is not available, use Silicone Color.

Coverage
see data sheet



Grouting



Fugalite Color

Waterproof decorative resin for the grouting and bonding of ceramic tiles, mosaics and natural stones.

Coverage
see data sheet



Tile laying



H40 Advanced*

Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid, with accelerated adhesion. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.

* Alternatively use H40 Gel for non-accelerated adhesion laying

Coverage
≈ 1.25 kg/m²
per mm of thickness



Substrate



Keracem Eco Prontoplus

Ready-to-use, fibre-reinforced, normal-setting and rapid-drying mineral screed to be covered with adhesives.

Coverage
≈ 16 - 18 kg/m²
per cm of thickness



Tapetex

Compressible, closed-cell expanded polyethylene tape for perimeter and desolidarisation joints.

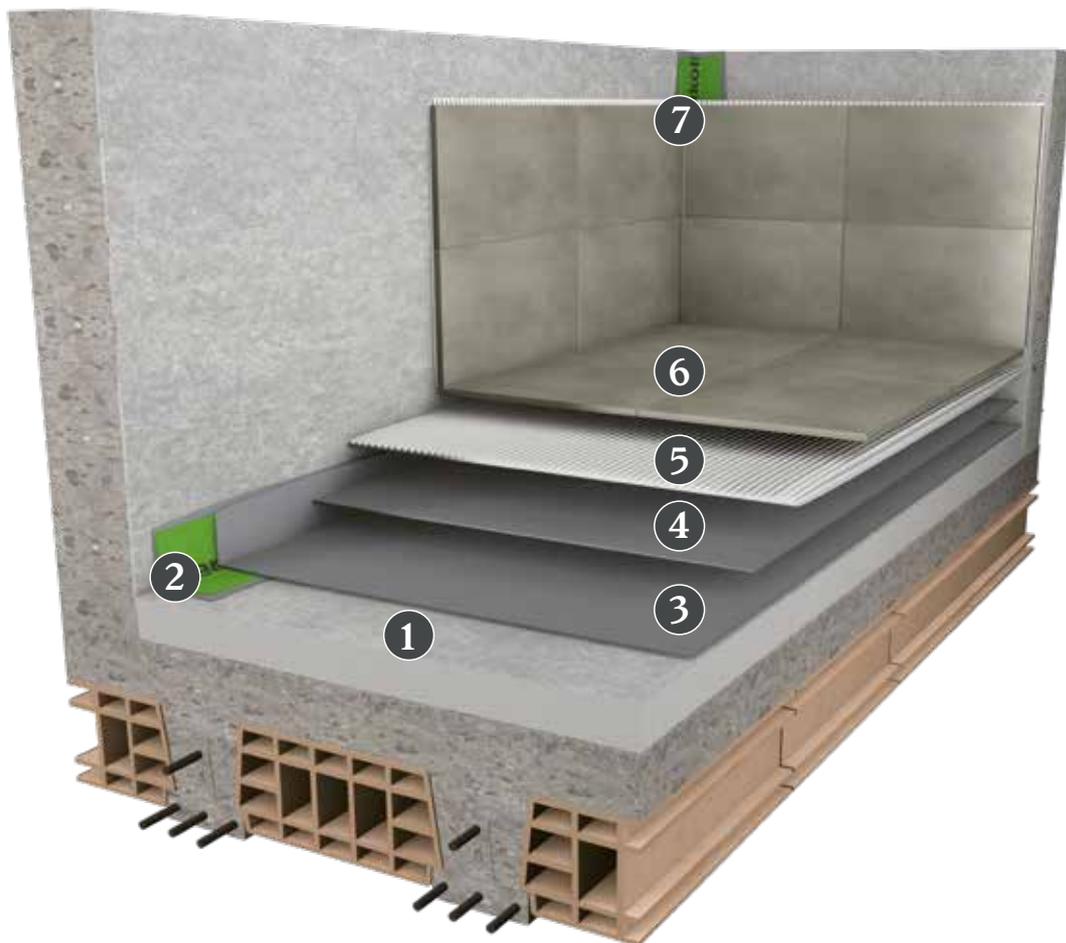
Roll 50 m

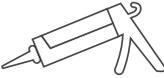
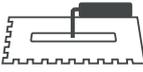
The screed must be desolidarised around the perimeter. In order to do so, lay the Tapetex compressible tape along the whole perimeter, on the walls and on any other vertical elements protruding from the supporting layer.

Laying and waterproofing in environments subject to chemical stresses.

The ideal solution for laying in environments where chemical aggression is expected, such as chemical laboratories, industrial kitchens, etc.

- Instructions refer to laying on existing screed
- High chemical and mechanical resistances
- Ensures protection of the underlying structure
- Guarantees excellent resistance to temperature variations
- It is not affected by aggressive water



		Fractionizing/expansion joints		application tools	
7		Silicone Color	Decorative sealant for ceramics, mosaics and swimming pools.	Coverage see data sheet	
6		Fugalite Color	Waterproof decorative resin for the grouting and bonding of ceramic tiles, mosaics and natural stones.	Coverage see data sheet	
5		H40 Extreme	Hybrid, structural, multipurpose, extra-flexible, extra-workable Gel-Adhesive. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.	Coverage ≈ 1.45 kg/m ² per mm of thickness	
Waterproofing					
4		Aquastop Nanogum (2nd coat)	Reactive waterproofing product with high chemical resistance and high adhesion and flexibility.	Coverage ≈ 1.2 kg/m ² per mm of thickness	
3		Aquastop Nanogum (1st coat)	Reactive waterproofing product with high chemical resistance and high adhesion and flexibility.	Coverage ≈ 1.2 kg/m ² per mm of thickness	
2		Aquastop Plus 120	High-adhesion, elastic, waterproof tape, for joints. The three-layer structure with a waterproofing alkali-resistant TPE central core and polypropylene fibres guarantees extreme compatibility with all waterproofing products.	Treatment of joints	
All substrates must be cured, undamaged, compact, surface-resistant, dry, and clean.					
Optional: substrate preparation					
1		EP21	Organic resin for the consolidation of absorbent substrates, the creation of finishings and epoxy screeds, and waterproofing of cement-based substrates with high residual moisture.	Coverage see data sheet	
		Keragrip Pulep	Organic preparation coat for treatment and cleaning of non-absorbent substrates.	Coverage ≈ 30 ml/m ²	

The information about the laying systems and the laying systems themselves described in this guide are for informational purposes only and are based on general technical practices. Before laying or using the products mentioned in this guide, it is the responsibility of the user and/or designer to verify and comply with local laws, technical regulations, and standards applicable where the work will be carried out.

Laying in damp internal environments.

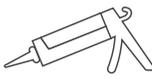
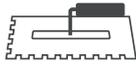
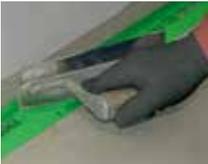
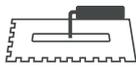
Ideal solution for showers, bathrooms and Turkish baths, and more generally for waterproofing of environments with high humidity.

- Guarantees the water protection of adjacent rooms
- Suitable for renovation work
- Laying of the coating material

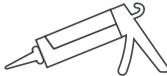
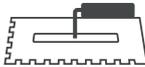


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			application tools
10		Expansion joints Silicone Color Decorative sealant for ceramics, mosaics and swimming pools.	Coverage see data sheet 
9		Grouting Fugalite Color Waterproof decorative resin for the grouting and bonding of ceramic tiles, mosaics and natural stones.	Coverage see data sheet 
8		Tile laying H40 Advanced* Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid, with accelerated adhesion. For all types and sizes of porcelain tiles, ceramic tiles and natural stones. * Alternatively use H40 Gel for non-accelerated adhesion laying	Coverage $\approx 1.25 \text{ kg/m}^2$ per mm of thickness 
7		Waterproofing Aquastop Plus Flangia High-adhesion, elastic waterproof flange. The three-layer structure with a waterproofing alkali-resistant TPE central core and polypropylene fibres guarantees extreme compatibility with all waterproofing products of Kerakoll's Laminate Systems and Nanodefense Eco. Flexible area in the centre facilitates sealing of pipes and drains.	Treatment of through elements 
6		Aquastop Plus 120 High-adhesion, elastic, waterproof tape, for joints. The three-layer structure with a waterproofing alkali-resistant TPE central core and polypropylene fibres guarantees extreme compatibility with all waterproofing products.	Treatment of joints 
5		Aquastop Fix Organic, single-component waterproof sealant with high levels of adhesion for Aquastop tapes and membranes.	Coverage $\approx 0.6 \text{ kg/m}^2$ equal to $\approx 0.7 - 1.0 \text{ kg/m}^2$ according to the surface geometry 
4		Aquastop Fabric Polyethylene vapour barrier waterproofing membrane coated on both sides with high adhesion polypropylene fabric for waterproofing damp environments and environments with high vapour presence before laying ceramic tiles, porcelain tiles, mosaics and stone materials with Gel-Adhesives.	Coverage $\approx 30 \text{ m}^2$ with 1 roll 30 m 
3		H40 Advanced* Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid, with accelerated adhesion. For all types and sizes of porcelain tiles, ceramic tiles and natural stones). * Alternatively use H40 Gel for non-accelerated adhesion laying	Coverage $\approx 1.25 \text{ kg/m}^2$ per mm of thickness 
2		Substrate Keracem Eco Pronto Certified, ready-to-use, normal-setting and rapid-drying mineral screed to be covered with adhesives.	Coverage $\approx 16 - 18 \text{ kg/m}^2$ per cm of thickness 
1		Tapetex Compressible, closed-cell expanded polyethylene tape for perimeter and desolidarisation joints.	Roll 50 m

The screed must be desolidarised around the perimeter. In order to do so, lay the Tapetex compressible tape along the whole perimeter, on the walls and on any other vertical elements protruding from the supporting layer.

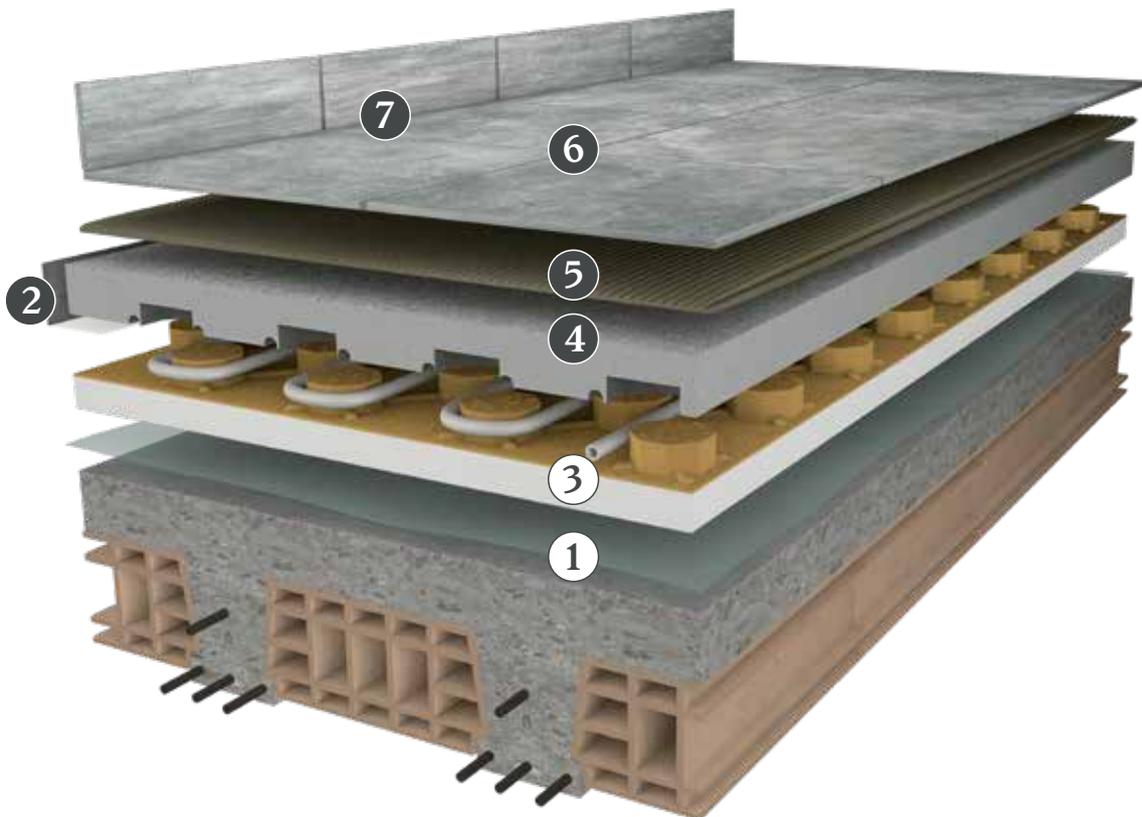
			application tools
8		Expansion joints Silicone Color Decorative sealant for tiles and mosaic in 50 design colours.	Coverage see data sheet 
7		Grouting Fugalite Color Waterproof decorative resin for the grouting and bonding of ceramic tiles, mosaics and natural stones.	Coverage see data sheet 
6		Tile laying H40 Gel Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.	Coverage ≈ 1.25 kg/m ² per mm of thickness 
5		Waterproofing Nanodefense Eco (2nd coat) Certified, organic, water-based, mineral waterproofing product for absorbent substrates in damp environments.	Coverage ≈ 1.5 kg/m ² per mm of thickness 
4		Aquistop Plus 120 High-adhesion, elastic, waterproof tape, for joints. The three-layer structure with a waterproofing alkali-resistant TPE central core and polypropylene fibres guarantees extreme compatibility with all waterproofing products.	Treatment of joints 
3		Nanodefense Eco (1st coat) Certified, organic, water-based, mineral waterproofing product for absorbent substrates in damp environments.	Coverage ≈ 1.5 kg/m ² per mm of thickness 
2		Substrate levelling Keralevel Eco LR Certified, fast-acting, mineral levelling product for the high-performance, high-thickness correction of irregular substrates.	Coverage ≈ 1.3 kg/m ² per mm of thickness 
1		Substrate Keracem Eco Pronto Certified, ready-to-use, normal-setting and rapid-drying mineral screed to be covered with adhesives.	Coverage ≈ 16 – 18 kg/m ² per cm of thickness 

Laying in internal applications

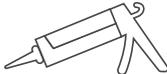
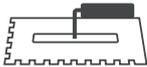
Laying on hydronic underfloor heating systems.

Low-inertia solution, ideal for obtaining maximum thermal comfort and energy saving.

- Guarantees excellent heat diffusion
- Optimises heating system performance
- Eliminates gaps typical of traditional systems with damp earth consistency



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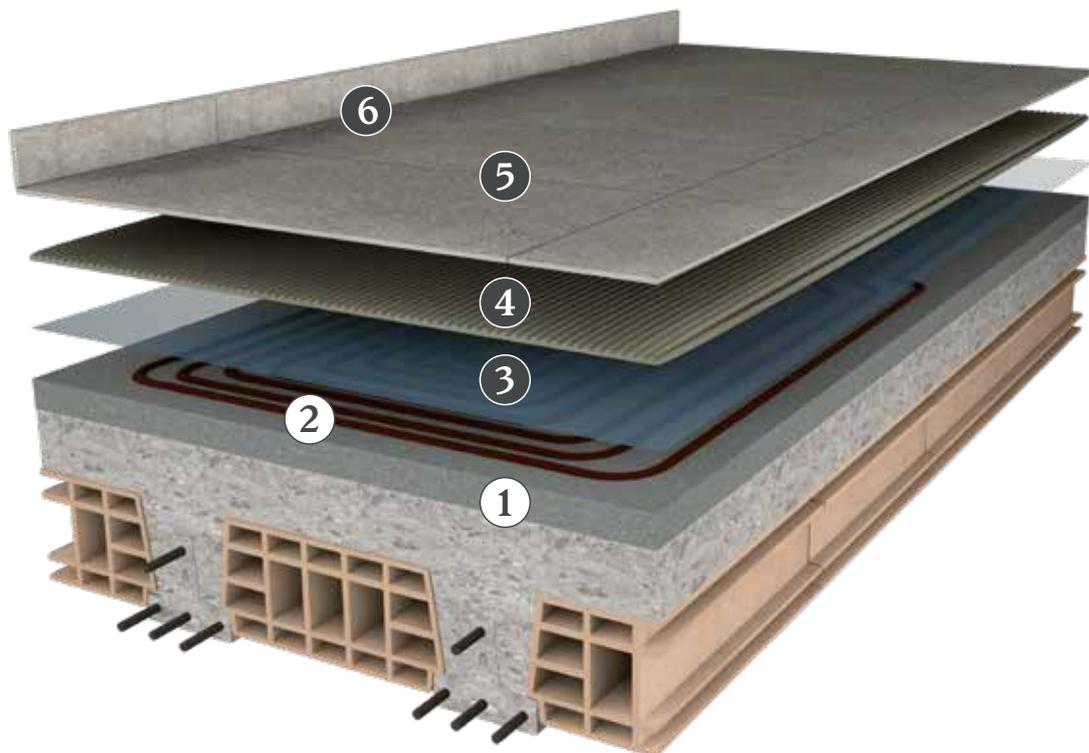
				application tools
7		Expansion joints Silmat Color* Ultra-matt decorative sealant. *Check the colour palette. If the desired colour is not available, use Silicone Color.	Coverage see data sheet	
6		Grouting Fugabella Color Decorative resin-cement for the grouting of ceramic tiles, mosaics and natural stones.	Coverage see data sheet	
5		Tile laying H40 Gel Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.	Coverage ≈ 1.25 kg/m ² per mm of thickness	
4		Substrate Keracem Eco Pronto Certified, ready-to-use, normal-setting and rapid-drying mineral screed to be covered with adhesives.	Coverage ≈ 16 – 18 kg/m ² per cm of thickness	
2		3 Underfloor heating systems with pre-formed insulation with compressive strength ≥ 150 kPa. Tapetex Compressible, closed-cell expanded polyethylene tape for perimeter and desolidarisation joints.	Roll 50 m	
		The self-levelling product must be desolidarised around the perimeter laying the Tapetex compressible tape along the whole perimeter, on the walls and on any other vertical elements protruding from the supporting layer.		
		1 PE or PVC sheet – anti-fracture vapour barrier.		

Laying in internal applications

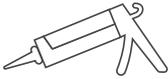
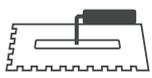
Laying on underfloor heating systems on milled floors.

Zero-thickness solution, ideal for renovations.

- Direct application of coverings without substrate layers
- Maximum thermal efficiency



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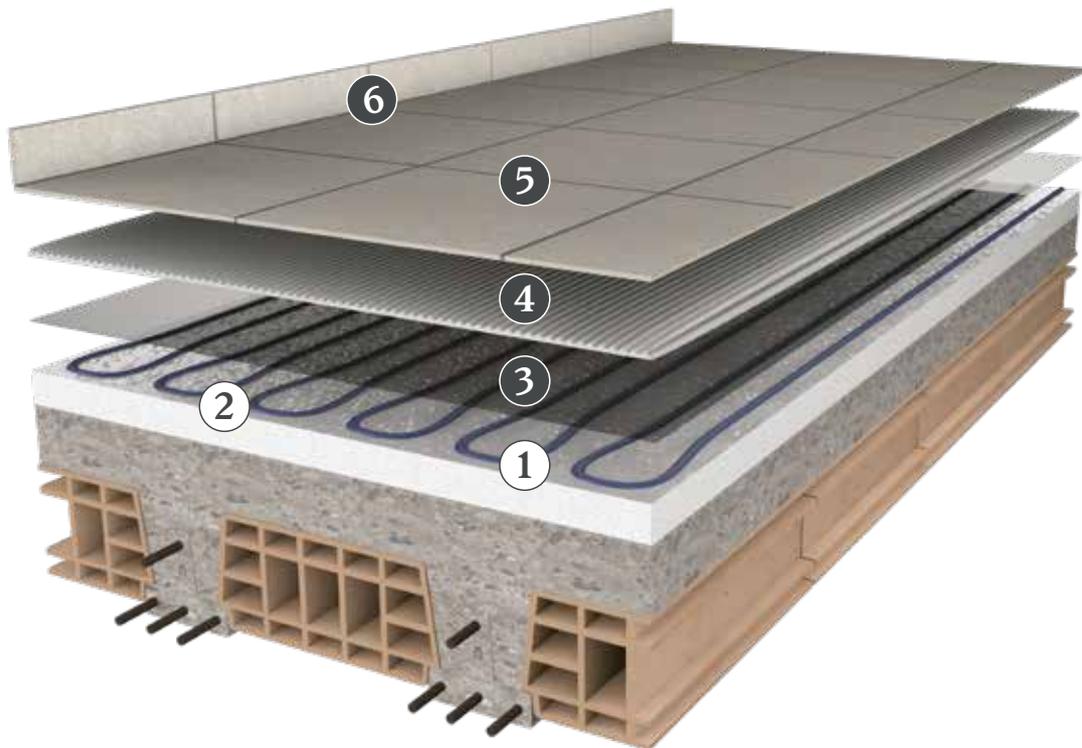
				application tools	
6		Expansion joints			
		Silmat Color*	Ultra-matt decorative sealant. *Check the colour palette. If the desired colour is not available, use Silicone Color.	Coverage see data sheet	
5		Grouting			
		Fugabella Color	Decorative resin-cement for the grouting of ceramic tiles, mosaics and natural stones.	Coverage see data sheet	
4		Tile laying			
		H40 Gel	Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.	Coverage ≈ 1.25 kg/m ² per mm of thickness	
3		Active Prime Fix	Rapid universal adhesion promoter for self-levelling products, cement-based adhesives, finishing products and plasters/renders. Single-component, water-based, for internal and external use.	Coverage ≈ 0.1 - 0.2 kg/m ²	
		2	Heating system.		
		1	Cement-based screed.		

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Laying on dry underfloor heating systems with conductive foil.

The ideal solution for direct laying of coverings on conductive metal foil.

- Direct application of coverings without substrate layers
- Maximum thermal efficiency
- Metal conductive foil for excellent heat diffusion



Expansion joints

application tools

6

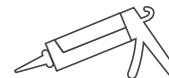


Silmat Color*

Ultra-matt decorative sealant.

*Check the colour palette. If the desired colour is not available, use Silicone Color.

Coverage
see data sheet



Grouting

5



Fugabella Color

Decorative resin-cement for the grouting of ceramic tiles, mosaics and natural stones.

Coverage
see data sheet



Tile laying

4



H40 Extreme*

Hybrid, structural, multipurpose, extra-flexible, extra-workable Gel-Adhesive. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.

Coverage
≈ 1,45 kg/m²
per mm of thickness

*Alternatively use H40 Gel + Active Prime Fix



3



Keragrip Pulep

Organic preparation coat for treatment and cleaning of non-absorbent substrates.

Coverage ≈ 30 ml/m²

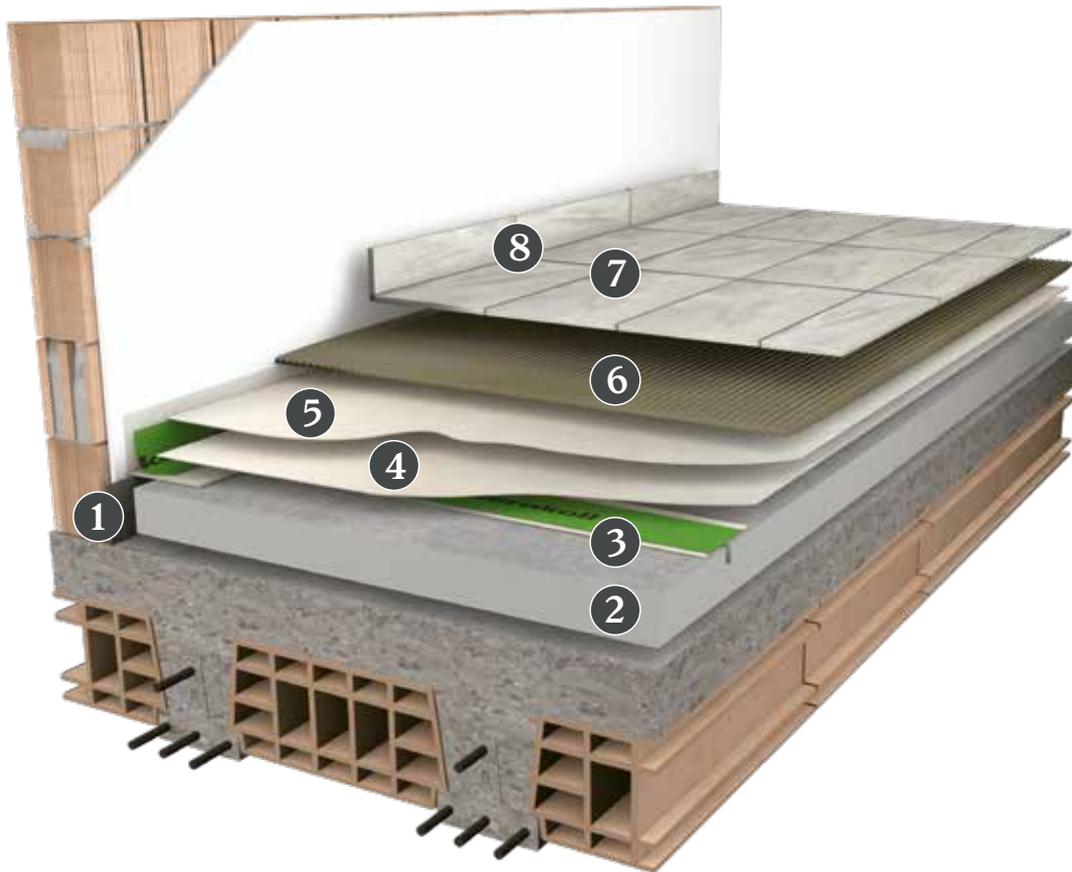
2 Aluminium sheets.

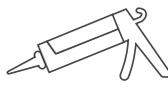
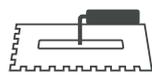
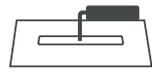
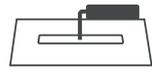
1 Heating system.

Waterproof laying on balconies and terraces.

Ideal solution for waterproof laying with extremely high workability of balconies and terraces.

- Variable rheology and first-class workability to suit all conditions
- Quick and easy to apply with no reinforcing mesh, it speeds up work on site
- Thanks to the perfect fusion between Aquastop Nanoflex and gel adhesives H40, it allows the creation of a single waterproof body free of tension stresses between the substrate and the covering.



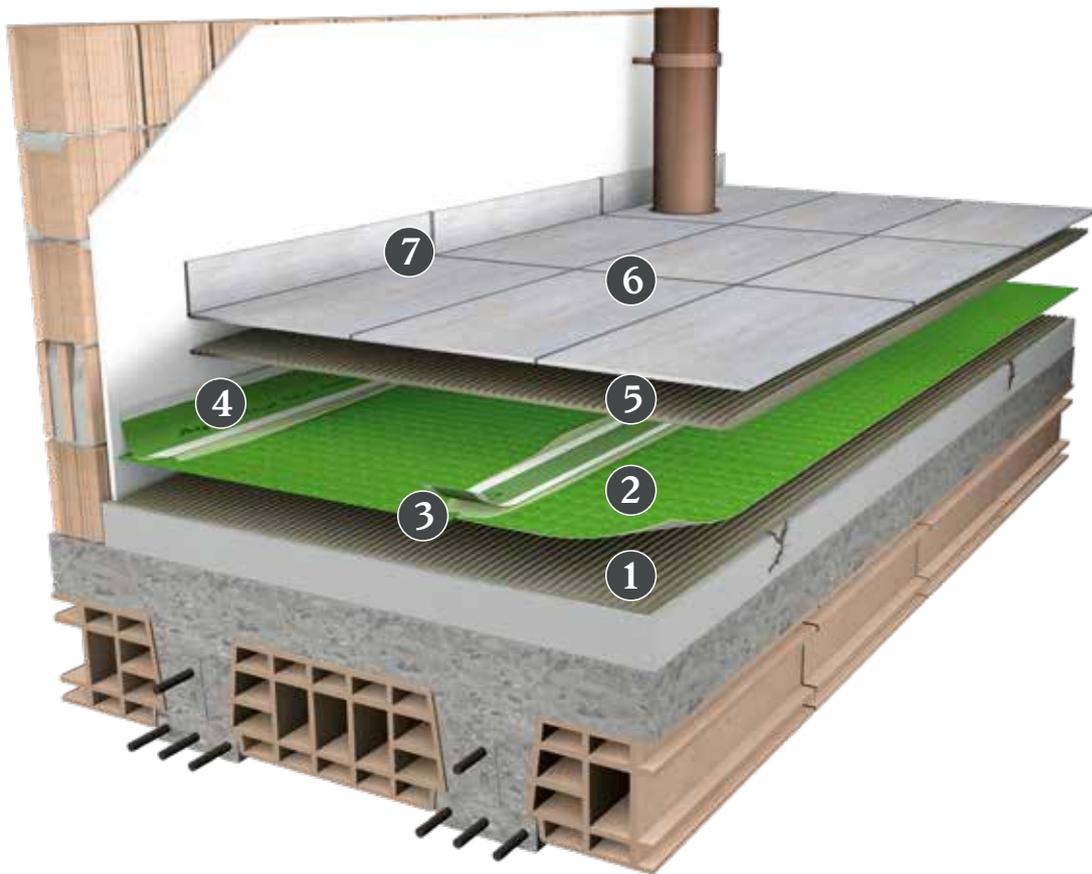
				application tools
8		<p>Expansion joints</p> <p>Silmat Color*</p> <p>Ultra-matt decorative sealant.</p> <p>*Check the colour palette. If the desired colour is not available, use Silicone Color.</p>	Coverage see data sheet	
7		<p>Grouting</p> <p>Fugabella Color</p> <p>Decorative resin-cement for the grouting of ceramic tiles, mosaics and natural stones.</p>	Coverage see data sheet	
6		<p>Tile laying</p> <p>H40 Gel</p> <p>Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.</p>	Coverage $\approx 1.25 \text{ kg/m}^2$ per mm of thickness	
5		<p>Waterproofing</p> <p>Aquastop Nanoflex (2nd coat)</p> <p>Certified, eco-friendly, breathable, anti alkali and chlorine resistant, mineral membrane for the flexible waterproofing with high levels of adhesion and durability of substrates before laying with adhesives.</p>	Coverage $\approx 1.15 \text{ kg/m}^2$ per mm of thickness	
4		<p>Aquastop Nanoflex (1st coat)</p> <p>Certified, eco-friendly, breathable, anti alkali and chlorine resistant, mineral membrane for the flexible waterproofing with high levels of adhesion and durability of substrates before laying with adhesives.</p>	Coverage $\approx 1.15 \text{ kg/m}^2$ per mm of thickness	
3		<p>Aquastop Plus 120</p> <p>High-adhesion, elastic, waterproof tape, for joints. The three-layer structure with a waterproofing alkali-resistant TPE central core and polypropylene fibres guarantees extreme compatibility with all Kerakoll Laminate system waterproofing products.</p>	Treatment of joints	
2		<p>Substrate</p> <p>Keracem Eco Pronto</p> <p>Certified, ready-to-use, normal-setting and rapid-drying mineral screed to be covered with adhesives.</p>	Coverage $\approx 16 - 18 \text{ kg/m}^2$ per cm of thickness	
1		<p>Tapetex</p> <p>Compressible, closed-cell expanded polyethylene tape for perimeter and desolidarisation joints.</p>	Roll 50 m	

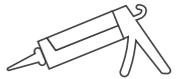
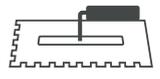
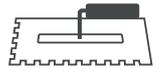
The screed must be desolidarised around the perimeter. In order to do so, lay the Tapetex compressible tape along the whole perimeter, on the walls and on any other vertical elements protruding from the supporting layer.

Laying on waterproofing anti-cracking membranes.

The ideal solution when waterproofing balconies; it combines the advantages of a waterproofing system with anti-cracking performance.

- It waterproofs any surface, old or new, damp or dry, cracked or subject to non-structural dimensional variations
- It compensates for hygrometric shrinkage and thermal deformation stress
- It reduces on-site working times: waterproofing and laying of the coating without waiting, withstands foot traffic immediately
- It solves the problem of respecting substrate joints
- The only high-tenacity HDPE triple-layer membrane



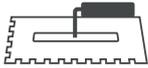
			application tools
7		<p>Expansion joints</p> <p>Silmat Color*</p> <p>Ultra-matt decorative sealant.</p> <p>*Check the colour palette. If the desired colour is not available, use Silicone Color.</p>	<p>Coverage see data sheet</p> 
6		<p>Grouting</p> <p>Fugabella Color</p> <p>Decorative resin-cement for the grouting of ceramic tiles, mosaics and natural stones.</p>	<p>Coverage see data sheet</p> 
5		<p>Tile laying</p> <p>H40 Gel</p> <p>Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.</p>	<p>Coverage ≈ 1.25 kg/m² per mm of thickness</p> 
4		<p>Waterproofing</p> <p>Aquistop 120</p> <p>High adhesion, alkali-resistant, NBR, elastic waterproof joint for perimeter and fractionizing-expansion joints in Kerakoll's Laminati Systems, prior to laying ceramic tiles, porcelain tiles and stone materials with Gel-adhesives.</p>	<p>Treatment of joints</p>
3		<p>Aquistop Fix</p> <p>Organic, single-component waterproof sealant with high levels of adhesion for Aquastop tapes and membranes.</p>	<p>Coverage ≈ 0.6 kg/m²</p> 
2		<p>Aquistop Green</p> <p>Anti-cracking waterproof membrane with high adhesion for balconies, terraces and horizontal surfaces before the laying of ceramic tiles, natural stones and hardwood floors; it creates a waterproof surface even when overlaid on cracked supports, supports that have not been perfectly cured or supports that might contain vapour pressure due to residual substrate moisture content.</p>	<p>Coverage 23 m² with 1 roll 20 m</p> 
1		<p>H40 Gel</p> <p>Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.</p>	<p>Coverage ≈ 1.25 kg/m² per mm of thickness</p> 

Laying in ceramic tiles swimming pools.

Ideal solution in case of high-resistance waterproofing systems to shear stresses in swimming pool.

- Variable rheology and first-class workability to suit all conditions
- Quick and easy to apply with no reinforcing mesh, it speeds up work on site
- Guaranteed, high shear strength, breathable waterproofing for all surfaces



			application tools
7		Grouting Fugalite Color Decorative sealant for tiles and mosaic in 50 design colours.	Coverage see data sheet 
6		Tile laying H40 Gel Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.	Coverage ≈ 1.25 kg/m ² per mm of thickness 
5		Waterproofing Aquastop Nanoflex (2nd coat) Certified, eco-friendly, breathable, anti alkali and chlorine resistant, mineral membrane for the flexible waterproofing with high levels of adhesion and durability of substrates before laying with adhesives.	Coverage ≈ 1.15 kg/m ² per mm of thickness 
4		Aquastop Nanosil Eco-friendly, rigid, neutral, organic silane adhesive-sealant for waterproof sealing of hydraulic and electric systems, through elements and construction elements in swimming pools and in Kerakoll Laminat systems.	Coverage ≈ 10 m (joint 5x5 mm) with one cartridge (290 ml) 
3		Aquastop Nanoflex (1st coat) Certified, eco-friendly, breathable, anti alkali and chlorine resistant, mineral membrane for the flexible waterproofing with high levels of adhesion and durability of substrates before laying with adhesives.	Coverage ≈ 1.15 kg/m ² per mm of thickness 
2		Aquastop 120 High adhesion, alkali-resistant, NBR, elastic waterproof joint for perimeter and fractionizing-expansion joints in Kerakoll's Laminati Systems, prior to laying ceramic tiles, porcelain tiles and stone materials with Gel-adhesives.	
1		Substrate levelling* Geolite Mineral geo-mortar with geo-binder base for monolithic repair of reinforced concrete.	Coverage ≈ 17 kg/m ² per cm of thickness 

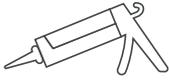
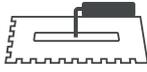
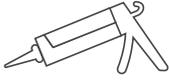
*To be carried out if necessary

Laying in mosaic swimming pools.

The ideal solution in case of extremely high-performance waterproofing systems for high chemical resistance waterproof laying in swimming pools.

- Allows waterproof laying of any material on unconventional extreme substrates
- Mineral binder-free hybrid system; it totally eliminates the risk of salt and lime efflorescences
- Extreme adhesion, deformability and durability performances



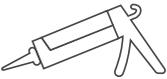
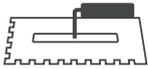
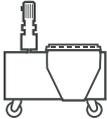
		application tools
7		<p>Grouting</p> <p>Silicone Color</p> <p>Decorative sealant for tiles and mosaic in 50 design colours.</p> <p>Coverage see data sheet</p> 
6		<p>Fugalite Color</p> <p>Waterproof decorative resin for the grouting and bonding of ceramic tiles, mosaics and natural stones.</p> <p>Coverage see data sheet</p> 
Tile laying		
5		<p>H40 Extreme</p> <p>Hybrid, structural, multipurpose, extra-flexible, extra-workable Gel-Adhesive. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.</p> <p>Coverage $\approx 1,45 \text{ kg/m}^2$ per mm of thickness</p> 
Waterproofing		
4		<p>Aquastop Nanosil</p> <p>Rigid, neutral, organic silane adhesive-sealant for waterproof sealing of hydraulic and electric systems, through elements and construction elements in swimming pools and in Kerakoll Laminate systems.</p> <p>Coverage $\approx 10 \text{ m}$ (joint 5x5 mm) with 1 cartridge (290 ml)</p> 
3		<p>Aquastop Nanogum (2nd coat)</p> <p>Reactive waterproofing product with high chemical resistance and high adhesion and flexibility.</p> <p>Coverage $\approx 1.2 \text{ kg/m}^2$ per mm of thickness</p> 
2		<p>Aquastop Nanogum (1st coat)</p> <p>Reactive waterproofing product with high chemical resistance and high adhesion and flexibility.</p> <p>Coverage $\approx 1.2 \text{ kg/m}^2$ per mm of thickness</p> 
1		<p>Aquastop Plus 120</p> <p>High-adhesion, elastic, waterproof tape, for joints. The three-layer structure with a waterproofing alkali-resistant TPE central core and polypropylene fibres guarantees extreme compatibility with all waterproofing products.</p> <p>Treatment of joints</p> 

Laying on facades.

Ideal solution for bonded tiled facades.

- Before laying, check that the substrate has a tear strength of at least 1 N/mm^2
- Laying on facades must be carried out using the back buttering technique. In case of tiles with a larger side greater than 30 cm, the designer must assess the need for suitable mechanical fastening



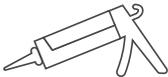
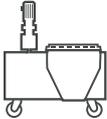
		Expansion joints		application tools	
4		Silicone Color	Decorative sealant for tiles and mosaic in 50 design colours.	Coverage see data sheet	
3		Fugabella Color	Decorative resin-cement for the grouting of ceramic tiles, mosaics and natural stones.	Coverage see data sheet	
2		H40 Gel	Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.	Coverage ≈ 1.25 kg/m ² per mm of thickness	
1		Metric R2 Fix	High ductility, fibre-reinforced thixotropic mortar for concrete and masonry reconstruction.	Coverage ≈ 15 kg/m ² per cm of thickness	

Laying large slabs on facades.

The ideal solution in case of large and very large format slabs.

- The ideal solution as well in case of slabs featuring backing materials
- Use the back buttering technique; the trowel ridges should run in the direction of the slab's short side



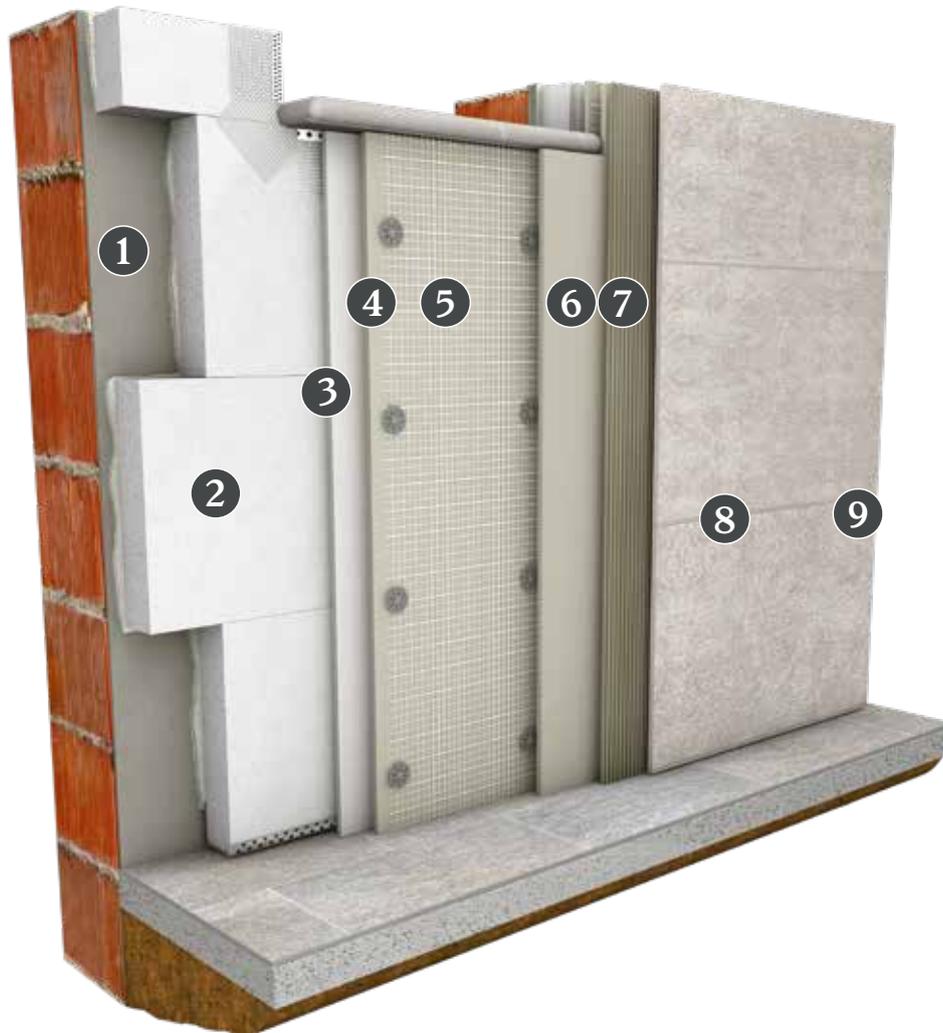
		Expansion joints		application tools	
4		Silicone Color	Decorative sealant for tiles and mosaic in 50 design colours.	Coverage see data sheet	
3		Fugabella Color	Decorative resin-cement for the grouting of ceramic tiles, mosaics and natural stones.	Coverage see data sheet	
2		H40 Tech	Multipurpose, ultra-flexible, structural gel-adhesive, thixo & fluid. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.	Coverage ≈ 1.25 kg/m ² per mm of thickness	
1		Metric R2 Fix	High ductility, fibre-reinforced thixotropic mortar for concrete and masonry reconstruction.	Coverage ≈ 15 kg/m ² per cm of thickness	

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Laying on facades on thermal insulation panelling systems.

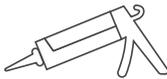
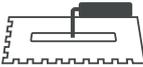
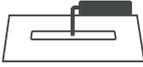
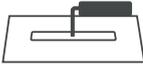
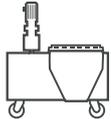
The ideal solution for tile laying on facades with thermal insulation panelling systems.

- The proposed cycle can also be prescribed in case of other types of insulating panels subject to appropriate evaluation
- Use the back buttering technique; the trowel ridges should run in the direction of the slab's short side
- Provide a suitable network of elastic, fractioning-desolidarisation joints
- The information contained herein is of a general nature; it is the responsibility of the designer, the building site management and the construction firm to check their suitability according to the building site requirements



The images in this guide are for illustrative purposes only and do not constitute binding technical references. The user is responsible for verifying that the laying systems comply with local regulations and standards.

The information about the laying systems and the laying systems themselves described in this guide are for informational purposes only and are based on general technical practices. Before laying or using the products mentioned in this guide, it is the responsibility of the user and/or designer to verify and comply with local laws, technical regulations, and standards applicable where the work will be carried out.

			application tools
9		<p>Expansion joints</p> <p>Neutro Color</p> <p>Decorative sealant for marble and natural stones.</p>	<p>Coverage see data sheet</p> 
8		<p>Grouting</p> <p>Fugabella Color</p> <p>Decorative resin-cement for the grouting of ceramic tiles, mosaics and natural stones.</p>	<p>Coverage see data sheet</p> 
7		<p>Tile laying</p> <p>H40 Tech</p> <p>Multipurpose, ultra-flexible, structural gel-adhesive, thixo & fluid. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.</p>	<p>Coverage ≈ 1.25 kg/m² per mm of thickness</p> 
6		<p>Substrate</p> <p>Metric R2 Fix (2nd coat)</p> <p>High ductility, fibre-reinforced thixotropic mortar for concrete and masonry reconstruction.</p>	<p>Coverage ≈ 15 kg/m² per cm of thickness</p> 
5		<p>Rinforzo ARV 100*</p> <p>Bi-axial, alkali-resistant, glass and aramid fibre mesh, specifically designed for low thickness strengthening, improvement and anti-seismic adaptation in reinforced concrete buildings with brick stud walls and masonry structures.</p> <p><small>*When the first coat has hardened, perform mechanical anchoring using Steel/ Nylon Percussion Inserts with 40x40 cm mesh, starting 20 cm from the corners of the thermal insulation panelling system.</small></p>	
4		<p>Metric R2 Fix (1st coat)</p> <p>High ductility, fibre-reinforced thixotropic mortar for concrete and masonry reconstruction.</p>	<p>Coverage ≈ 15 kg/m² per cm of thickness</p> 
3		<p>Klima Flex</p> <p>High performance, mineral Adhesive&Finishing product, specific for ETICS Klimaexpert ETA guaranteed performance insulation panelling systems.</p>	<p>Coverage as an adhesive ≈ 3 – 5 kg/m² as a finishing coat ≈ 1.6 kg/m² per mm of thickness</p> 
2		<p>Klima Airtech</p> <p>High quality insulating panel in white expanded polystyrene (EPS). Complies with standard EN 13163 and EAD 040083-00-0404 requirements. Product specified for the ETICS Klimaexpert ETA System with European Technical Approval. Free from CFC and HCFC it allows a reduction in CO₂ emissions, and can be recycled as an inert material at the end of its life.</p>	
1		<p>Metric R2 Fix</p> <p>High ductility, fibre-reinforced thixotropic mortar for concrete and masonry reconstruction.</p>	<p>Coverage ≈ 15 kg/m² per cm of thickness</p> 

Grouts and sealants

Fugabella Color	Fugalite Color	Silicone Color	Silmat Color	Neutro Color	Fugarok	
●	●	●				KK 1
●	●	●	●	●	●	KK 2
●	●	●				KK 4
●	●	●	●			KK 6
●	●	●	●			KK 8
●	●	●				KK 10
●	●	●	●	●		KK 12
●	●	●				KK 26
●	●	●				KK 27
●	●	●				KK 29
●	●	●				KK 30
●	●	●				KK 55
●	●	●				KK 47
●	●	●				KK 50
●	●	●				KK 64
●	●	●	●	●	●	KK 66
●	●	●	●	●		KK 68
●	●	●	●	●	●	KK 69
●	●	●	●	●	●	KK 71
●	●	●				KK 72
●	●	●	●	●		KK 76
●	●	●				KK 79
●	●	●				KK 81
●	●	●				KK 83
●	●	●	●	●	●	KK 86
●	●	●				KK 88
●	●	●				KK 89
●	●	●				KK 151
●	●	●				KK 92
●	●	●				KK 93
●	●	●				KK 94
●	●	●				KK 101
●	●	●				KK 102
●	●	●				KK 154
●	●	●				KK 103
●	●	●	●	●		KK 107
●	●	●	●	●	●	KK 109
●	●	●	●	●		KK 110
●	●	●				KK 157
●	●	●				KK 158
●	●	●				KK 153
●	●	●	●	●		KK 152
●	●	●				KK 155
●	●	●				KK 114
●	●	●				KK 126
●	●	●				KK 129
●	●	●				KK 130
●	●	●				KK 156
●	●	●				KK 136
●	●	●				KK 147

Fugabella Eco Porcelana 0-5

●	02	●	06	●	10	●	32	●	43
●	05	●	08	●	24	●	39	●	44

Shades shown are purely indicative.

This Technical Guide has been drafted on the basis of the best technical and practical knowledge of Kerakoll S.p.A.
It is, however, a set of guides and information of a general nature that do not consider the real situations of individual structures.
Kerakoll does not intervene directly in the building site conditions, the specific design of the project, and the execution of the work; the information and guidelines mentioned here do not commit Kerakoll in any way.
The designer in charge is responsible for the entire structural design in accordance with Italian Ministerial Decree 17/01/2018 and its amendments or additions.
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