

Laying of floors and coverings

Technical guide for
the building site

→ Ceramic, porcelain tiles,
mosaic and natural stone

kerakoll

Systems index

Tiling to calcium sulphate screeds and gypsum based substrates 3

Tiling to wooden substrates with heating system 5

Tiling to existing tiles and natural stone 7

Tiling to low profile heating panels 9

Tiling in damp environments and showers on wooden substrates 11

Tiling on terraces and balconies 13

Tiling in swimming pools 15

Tiling to external surfaces 17

Tiling to raised access flooring 19

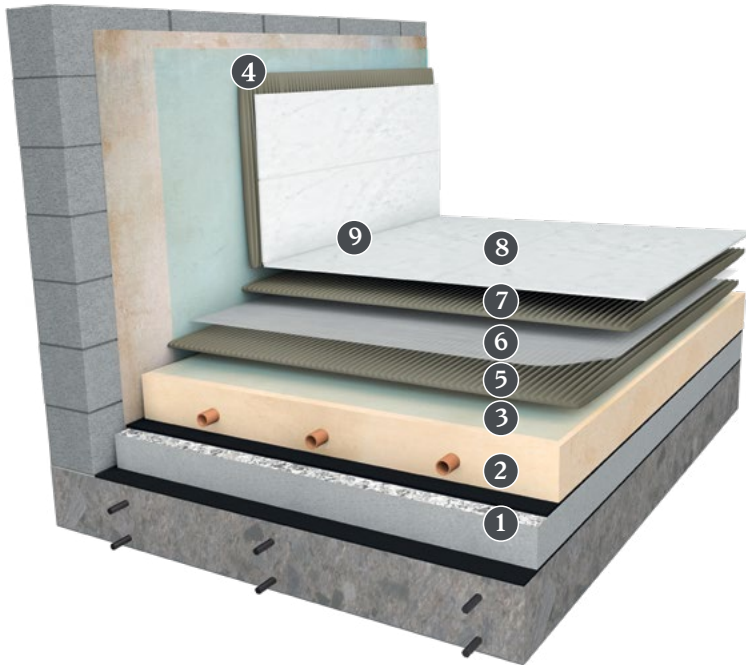
Tiling with thin and large format tiles 21


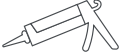










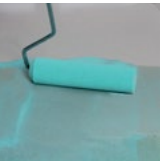

Tiling to heated screeds 23

Tiling to flooring grade bitumen or asphalt substrates 25

Tiling to calcium sulphate screeds and gypsum based substrates

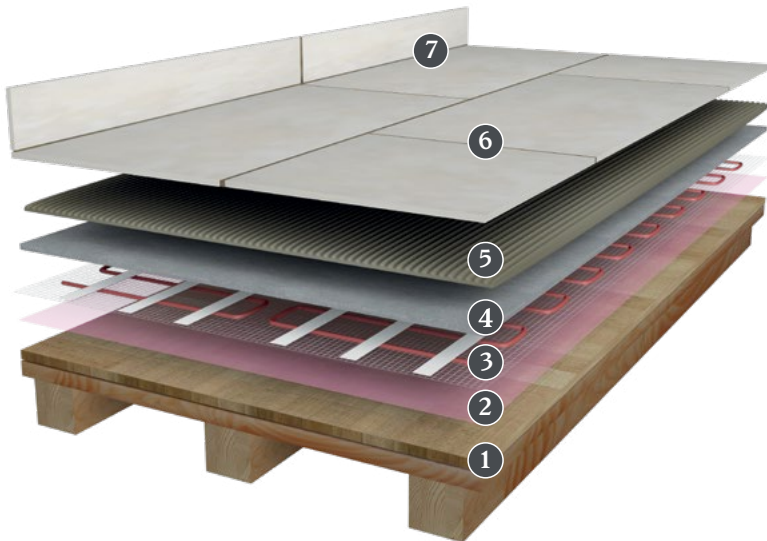
- Guarantees safe laying on calcium sulphate substrates
- Ideal for new and existing substrates
- Compatible with heated and unheated screeds
- System with very low VOC emissions, improves the quality of air and increases the level of health protection for operators













	Expansion joints		application tools	
9		Silicone Color Decorative sealant for tiles and mosaic in 50 design colours.	Rating 3 Coverage see data sheet	
8		Fugabella Color Decorative Resina-cemento (resin-cement) for grouting of ceramic and porcelain tiles, mosaic and natural stone in a 50-colour design range.	Rating 2 Coverage see data sheet	
7		H40 Advanced Rapid setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.	Rating 3 Coverage Grey = 1.3 kg/m ² per mm of thickness White = 1.2 kg/m ² per mm of thickness	
6		Biotex Recycled and thermo-bonded polyester, reinforced membrane, specifically designed to absorb shear stresses between substrates and bonded coatings; suitable as reinforcement for the laying of ceramic tiles of all kinds, large formats, porcelain tiles and natural stone.		
5		H40 Advanced Rapid setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.	Rating 3 Coverage Grey = 1.3 kg/m ² per mm of thickness White = 1.2 kg/m ² per mm of thickness	
4		H40 Gel Standard setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.	Rating 4 grey Rating 3 white Coverage Grey = 1.3 kg/m ² per mm of thickness White = 1.2 kg/m ² per mm of thickness	
3		Primer A Eco Certified, eco-friendly, water-based primer for dry, absorbent mineral/cement/gypsum or calcium sulphate-based substrates.	Rating 5 Coverage = 0,15 - 0,25 kg/m ²	
	2 Calcium sulphate screed			
	1 Insulation and underfloor heating pipes			

Tiling to wooden substrates with heating system

- Guarantees safe laying on high-deformation substrates
- Optimises heating system performance
- Insensitive to changes in temperature
- Fast completion of work
- System with very low VOC emissions, improves the quality of air and increases the level of health protection for operators



		Expansion joints		application tools	
9		Silicone Color	Decorative sealant for tiles and mosaic in 50 design colours.	Rating 3 Coverage see data sheet	
Grouting					
8		Fugabella Color	Decorative Resina-cemento (resin-cement) for grouting of ceramic and porcelain tiles, mosaic and natural stone in a 50-colour design range.	Rating 2 Coverage see data sheet	
Tile laying					
5		H40 Advanced	Rapid setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.	Rating 3 Coverage Grey $\approx 1.3 \text{ kg/m}^2$ per mm of thickness White $\approx 1.2 \text{ kg/m}^2$ per mm of thickness	
Substrate levelling					
4		Levelflex Gel	Rapid-setting fibre reinforced self levelling compound with Gel-Technology. Free flowing with variable rheology and prolonged workability.	Rating 4 Coverage $\approx 1.525 \text{ kg/m}^2$ per mm of thickness	
3 Heating system					
2		Keragrip Eco	Certified, eco-friendly, water-based adhesion promoter for compact, absorbent and non-absorbent substrates.	Rating 5 Coverage $\approx 0.1 - 0.2 \text{ kg/m}^2$	
Substrate					
1 Timber panel					

Tiling to existing tiles and natural stone

- Guarantees safe laying on existing floors and walls
- Ideal in renovation work
- Reduces operation times
- Avoids the costs and inconvenience of removal and disposal of the existing floor and wall tiles
- System with very low VOC emissions, improves the quality of air and increases the level of health protection for operators



Expansion joints

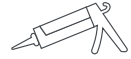
application tools

4

**Silicone Color**

Decorative sealant for tiles and mosaic in 50 design colours.

Rating 3
Coverage
see data sheet



Grouting

3

**Fugabella Color**

Decorative Resina-cemento (resin-cement) for grouting of ceramic and porcelain tiles, mosaic and natural stone in a 50-colour design range.

Rating 2
Coverage
see data sheet



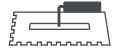
Tile laying on floor

2

**H40 Advanced**

Rapid setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.

Rating 3
Coverage
Grey $\approx 1.3 \text{ kg/m}^2$
per mm of thickness
White $\approx 1.2 \text{ kg/m}^2$
per mm of thickness



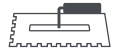
Tile laying on wall

1

**H40 Gel**

Standard setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.

Rating 4 grey
Rating 3 white
Coverage
Grey $\approx 1.3 \text{ kg/m}^2$
per mm of thickness
White $\approx 1.2 \text{ kg/m}^2$
per mm of thickness

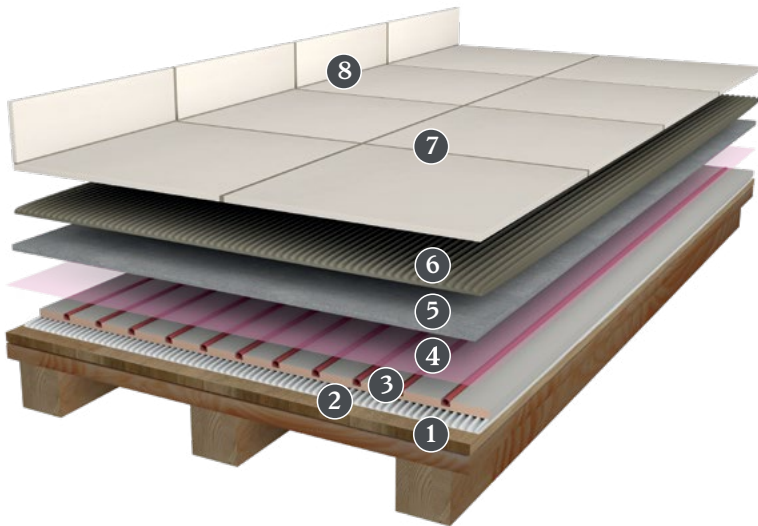








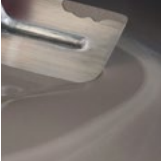



Substrate

Before levelling and/or fixing, clean the old flooring thoroughly, making sure you eliminate all traces of dirt using specific cleaning products. If in doubt, sand the surface. Fix loose elements or elements that are not perfectly fixed, and fill in any gaps with specific product.

Tiling to low profile heating panels

- Guarantees safe laying
- Optimises heating system performance
- Insensitive to changes in temperature
- Fast completion of work
- System with very low VOC emissions, improves the quality of air and increases the level of health protection for operators


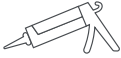
















		Expansion joints		application tools	
8		Silicone Color	Decorative sealant for tiles and mosaic in 50 design colours.	Rating 3 Coverage see data sheet	
Grouting					
7		Fugabella Color	Decorative Resina-cemento (resin-cement) for grouting of ceramic and porcelain tiles, mosaic and natural stone in a 50-colour design range.	Rating 2 Coverage see data sheet	
Tile laying					
6		H40 Advanced	Rapid setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.	Rating 3 Coverage Grey ≈ 1.3 kg/m ² per mm of thickness White ≈ 1.2 kg/m ² per mm of thickness	
Substrate levelling					
5		Levelflex Gel	Rapid-setting fibre reinforced self levelling compound with Gel-Technology. Free flowing with variable rheology and prolonged workability.	Rating 4 Coverage ≈ 1.525 kg/m ² per mm of thickness	
4		Keragrip Eco	Certified, eco-friendly, water-based adhesion promoter for compact, absorbent and non-absorbent substrates.	Rating 5 Coverage ≈ 0.1 – 0.2 kg/m ²	
Substrate					
3 Low profile heating panel					
2 Adhesive					
1 Timber panel					

Tiling in damp environments and showers on wooden substrates

- Guarantees the water protection of adjacent rooms
- Suitable for renovation work
- High level of chemical stability
- System with very low VOC emissions, improves the quality of air and increases the level of health protection for operators


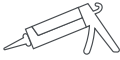
















			application tools
10		Expansion joints Silicone Color Decorative sealant for tiles and mosaic in 50 design colours.	Rating 3 Coverage see data sheet 
9		Grouting Fugalite Bio Water-based hypo-allergenic resin for waterproof, stain-proof, silk-effect grouting of porcelain tiles, natural stones and glass mosaic.	Rating 3 Coverage see data sheet 
8		Tile laying H40 Gel Standard setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.	Rating 4 grey/ 3 white Coverage Grey ≈ 1.3 kg/m ² per mm of thickness White ≈ 1.2 kg/m ² per mm of thickness 
7		Waterproofing Nanodefense Eco (2nd coat) Certified, eco-friendly, organic, water-based, mineral waterproofing product for absorbent substrates in damp environments.	Rating 5 Coverage ≈ 1.5 kg/m ² 
6		Aquastop 120 Flexible NBR waterproof joint for perimeter and fractionizing joints in waterproofing systems. For use under ceramic and porcelain tiles and natural stone. Bonds directly on application.	
5		Nanodefense Eco (1st coat) Certified, eco-friendly, organic, water-based, mineral waterproofing product for absorbent substrates in damp environments.	Rating 5 Coverage ≈ 1.5 kg/m ² 
4		4 Cement board	
3		H40 Advanced Rapid setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.	Rating 3 Coverage Grey ≈ 1.3 kg/m ² per mm of thickness White ≈ 1.2 kg/m ² per mm of thickness 
2		Preparation of substrates Keragrip Eco Certified, eco-friendly, water-based adhesion promoter for compact, absorbent and non-absorbent substrates.	Rating 5 Coverage ≈ 0.1 – 0.2 kg/m ² 
1		Substrate 1 Timber panel on floor / Backer Board panel on wall	

Tiling on terraces and balconies

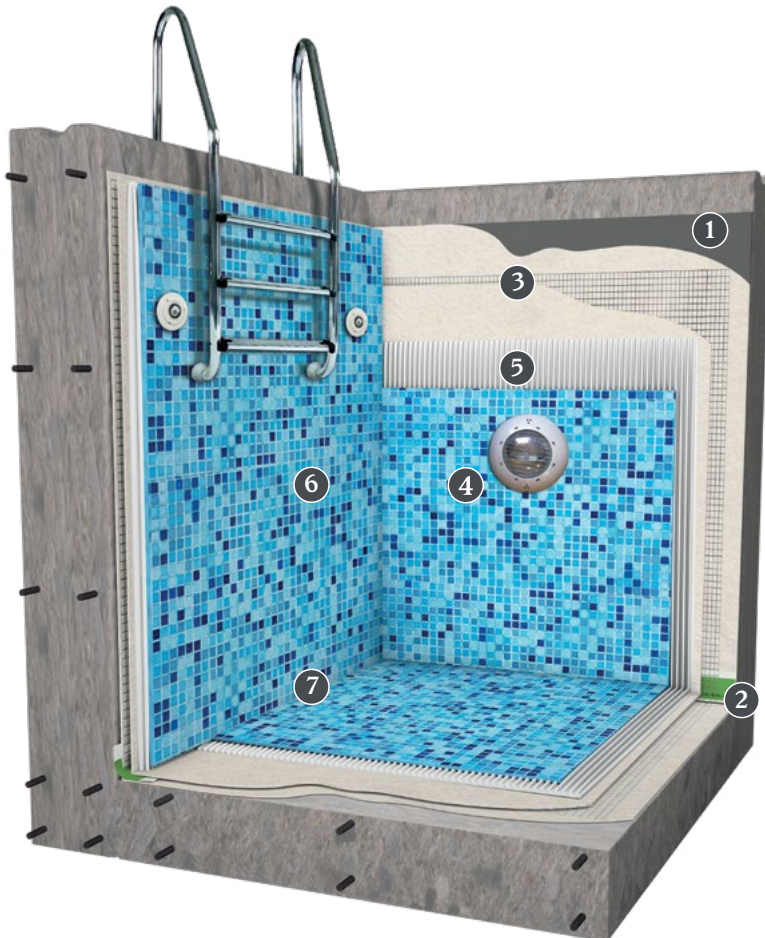
- Guarantees safe laying in difficult temperature and humidity conditions
- Ensures protection of the underlying structure
- Guarantees excellent resistance to temperature variations
- Complete hydrophobicity
- Fast completion of work
- System with very low VOC emissions, improves the quality of air and increases the level of health protection for operators


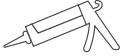














	Expansion joints		application tools
8		Silicone Color Decorative sealant for tiles and mosaic in 50 design colours.	Rating 3 Coverage see data sheet 
7		Fugalite Bio Water-based hypo-allergenic resin for waterproof, stain-proof, silk-effect grouting of porcelain tiles, natural stones and glass mosaic.	Rating 3 Coverage see data sheet 
6		H40 Advanced Rapid setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.	Rating 3 Coverage Grey ≈ 1.3 kg/m ² per mm of thickness White ≈ 1.2 kg/m ² per mm of thickness 
5		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.	Rating 3 Coverage ≈ 1.15 kg/m ² per mm of thickness 
4		Aquastop AR1 Special reinforcing mesh made of alkali-resistant glass fibre.	
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.	Rating 3 Coverage ≈ 1.15 kg/m ² per mm of thickness 
2		Aquastop 120 Flexible NBR waterproof joint for perimeter and fractionizing joints in waterproofing systems. For use under ceramic and porcelain tiles and natural stone. Bonds directly on application.	
1		Keracem Eco Certified, eco-friendly, normal-setting and quick-drying mineral hydraulic binder for high-performance screeds. Ideal for underfloor heating systems.	Rating 2 Coverage ≈ 2 – 2.5 kg/m ² per cm of thickness 

Tiling in swimming pools

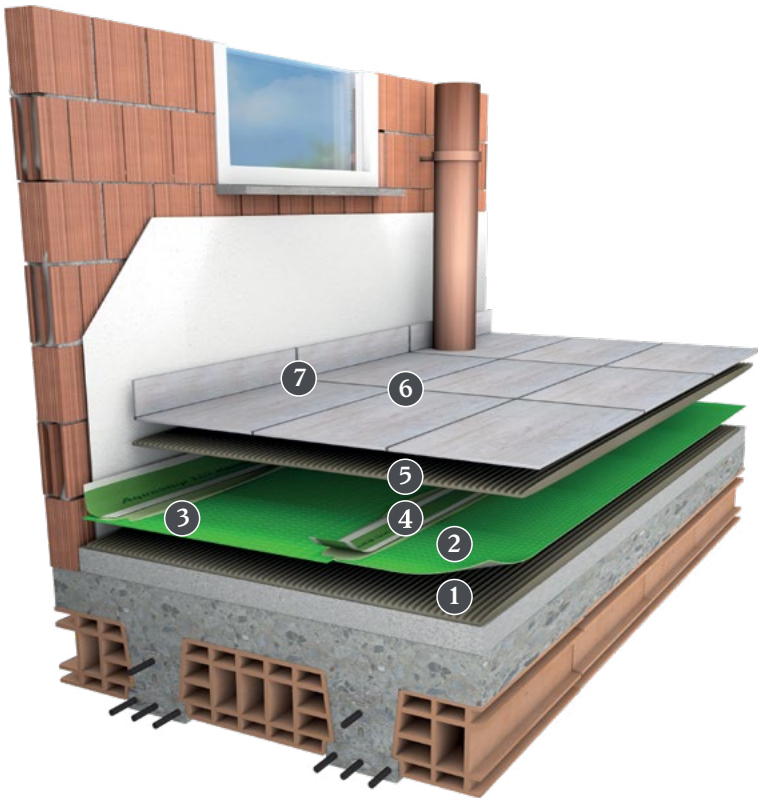
- Ensures safe laying under continuous immersion
- It is not affected by aggressive water
- Increases the hygiene
- System with very low VOC emissions, improves the quality of air and increases the level of health protection for operators


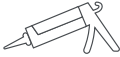






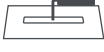



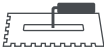


			application tools
7		Expansion joints Silicone Color Decorative sealant for tiles and mosaic in 50 design colours.	Rating 3 Coverage see data sheet 
6		Grouting Fugalite Bio Water-based hypo-allergenic resin for waterproof, stain-proof, silk-effect grouting of porcelain tiles, natural stones and glass mosaic.	Rating 3 Coverage see data sheet 
5		Tile laying H40 Gel Standard setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.	Rating 4 grey/3 white Coverage Grey ≈ 1.3 kg/m ² per mm of thickness White ≈ 1.2 kg/m ² per mm of thickness 
4		Waterproofing Aquastop Nanosil Eco-friendly rigid neutral silane adhesive sealant for waterproof sealing of hydraulic and electric systems, through elements and construction elements in swimming pools and in Kerakoll Laminate systems.	Rating 4 Coverage ≈ 10 m (joint 5x5 mm) with 1 cartridge (290 ml) 
3		Aquastop Nanoflex (1st coat) (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. To be reinforced with Aquastop AR1 , special reinforcing mesh made of alkali-resistant glass fibre.	Rating 3 Coverage ≈ 1.15 kg/m ² per mm of thickness 
2		Aquastop 120 Flexible NBR waterproof joint for perimeter and fractionizing joints in waterproofing systems. For use under ceramic and porcelain tiles and natural stone. Bonds directly on application.	
1		Wall levelling Keralevel Eco LR Certified, fast-acting, eco-friendly, mineral levelling product for the high-performance, high-thickness correction of irregular substrates.	Rating 3 Coverage ≈ 1.3 kg/m ² per mm of thickness 

Tiling to external surfaces

- It waterproofs any surface, old or new, damp or dry, cracked or subject to 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




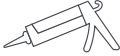




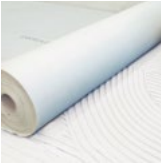



	Expansion joints		application tools
7		<p>Silicone Color</p> <p>Decorative sealant for tiles and mosaic in 50 design colours.</p>	<p>Rating 3 Coverage see data sheet</p> 
6		<p>Fugalite Bio</p> <p>Water-based hypo-allergenic resin for waterproof, stain-proof, silk-effect grouting of porcelain tiles, natural stones and glass mosaic.</p>	<p>Rating 3 Coverage see data sheet</p> 
5		<p>H40 Advanced</p> <p>Rapid setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.</p>	<p>Rating 3 Coverage Grey = 1.3 kg/m² per mm of thickness White = 1.2 kg/m² per mm of thickness</p> 
4		<p>Aquastop 120</p> <p>Flexible NBR waterproof joint for perimeter and fractionizing joints in waterproofing systems. For use under ceramic and porcelain tiles and natural stone. Bonds directly on application.</p>	
3		<p>Aquastop Fix</p> <p>One-component organic sealant for waterproof sealing with high adhesion with Aquastop tapes in the Laminate No Crack and Laminate Vapor Pro systems, ready to use, eco-friendly.</p>	<p>Rating 5 Coverage ≈ 0.6 kg/m²</p> 
2		<p>Aquastop Green</p> <p>Anti-cracking waterproof membrane with high adhesion for balconies, terraces and horizontal surfaces before the laying of ceramic tiles, natural stone 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 Advanced</p> <p>Rapid setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.</p>	<p>Rating 3 Coverage Grey = 1.3 kg/m² per mm of thickness White = 1.2 kg/m² per mm of thickness</p> 

Substrates: screeds, marble floor tiles, natural stone floorings anchored to the substrate, fibre-cement and plaster-board panels anchored to the substrate. Check mechanical performance and substrates integrity; check the surface cleaning.

Tiling to raised access flooring

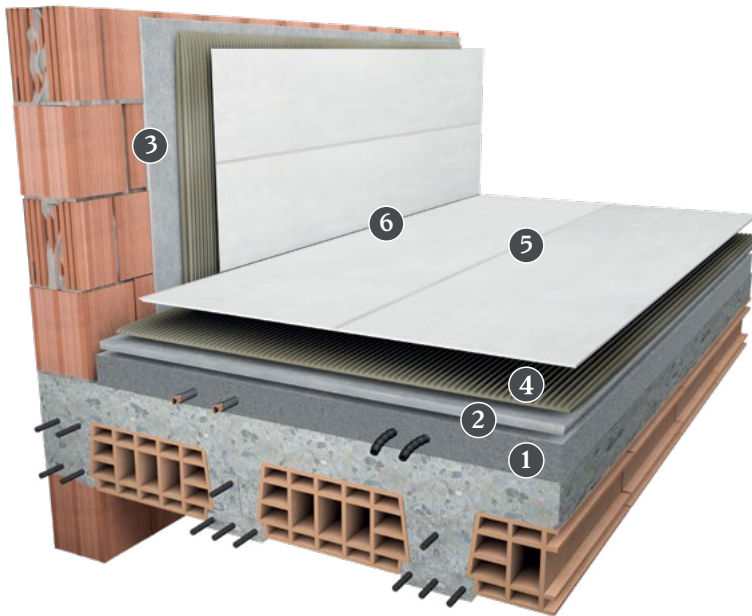
- Guarantees safe laying
- Low profile system
- Fast completion of work
- System with very low VOC emissions, improves the quality of air and increases the level of health protection for operators















		application tools
6		<p>Expansion joints</p> <p>Silicone Color</p> <p>Decorative sealant for tiles and mosaic in 50 design colours.</p> <p>Rating 3 Coverage see data sheet</p> 
5		<p>Grouting</p> <p>Fugabella Color</p> <p>Decorative Resina-cemento (resin-cement) for grouting of ceramic and porcelain tiles, mosaic and natural stone in a 50-colour design range.</p> <p>Rating 2 Coverage see data sheet</p> 
4		<p>Tile laying</p> <p>H40 Extreme</p> <p>Hybrid, structural, multi-purpose, extra-flexible, extra-workable Gel-Adhesive. For all types and sizes of porcelain tiles, ceramic tiles and natural stone.</p> <p>Rating 2 Coverage ≈ 1.45 kg/m² per mm of thickness</p> 
3		<p>Biotex</p> <p>Recycled and thermo-bonded polyester, reinforced membrane, specifically designed to absorb shear stresses between substrates and bonded coatings; suitable as reinforcement for the laying of ceramic tiles of all kinds, large formats, porcelain tiles and natural stone.</p> 
2		<p>H40 Extreme</p> <p>Hybrid, structural, multi-purpose, extra-flexible, extra-workable Gel-Adhesive. For all types and sizes of porcelain tiles, ceramic tiles and natural stone.</p> <p>Rating 2 Coverage ≈ 1.45 kg/m² per mm of thickness</p> 
Substrate		
1 Raised access flooring system		

Tiling with thin and large format tiles

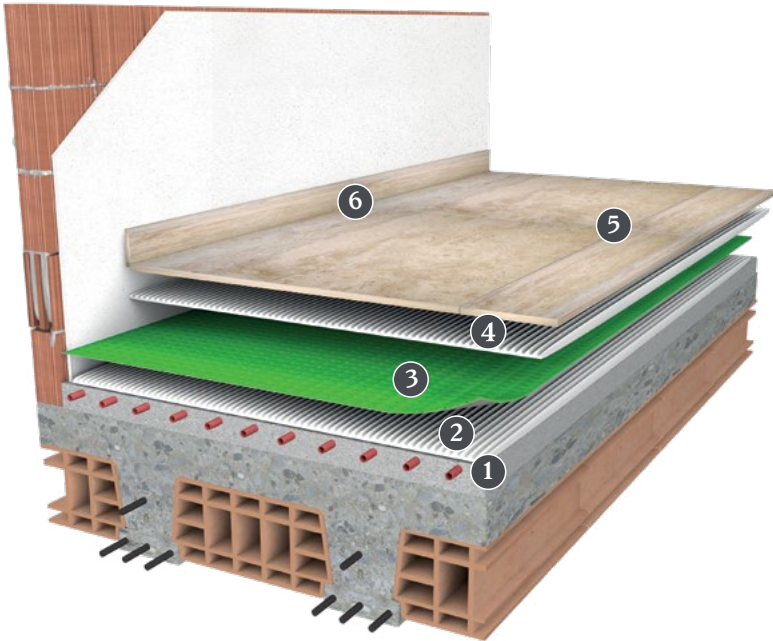
- Guarantees safe laying of thin elements
- Ensures high resistance to compression
- Suitable for renovation work
- Reduces operation times
- System with very low VOC emissions, improves the quality of air and increases the level of health protection for operators

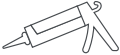


	Expansion joints		application tools
6		<p>Silicone Color</p> <p>Decorative sealant for tiles and mosaic in 50 design colours.</p>	<p>Rating 3 Coverage see data sheet</p> 
5		<p>Fugabella Color</p> <p>Decorative Resina-cemento (resin-cement) for grouting of ceramic and porcelain tiles, mosaic and natural stone in a 50-colour design range.</p>	<p>Rating 2 Coverage see data sheet</p> 
4		<p>H40 Gel</p> <p>Standard setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.</p>	<p>Rating 4 grey/3 white Coverage Grey $\approx 1.3 \text{ kg/m}^2$ per mm of thickness White $\approx 1.2 \text{ kg/m}^2$ per mm of thickness</p> 
3		<p>Keralevel Eco LR</p> <p>Certified, fast-acting, eco-friendly, mineral levelling product for the high-performance, high-thickness correction of irregular substrates.</p>	<p>Rating 3 Coverage $\approx 1.3 \text{ kg/m}^2$ per mm of thickness</p> 
2		<p>Levelflex Gel</p> <p>Rapid-setting fibre reinforced self levelling compound with Gel-Technology. Free flowing with variable rheology and prolonged workability.</p>	<p>Rating 4 Coverage $\approx 1.525 \text{ kg/m}^2$ per mm of thickness</p> 
1		<p>Keracem Eco</p> <p>Certified, eco-friendly, normal-setting and quick-drying mineral hydraulic binder for high-performance screeds. Ideal for underfloor heating systems.</p>	<p>Rating 2 Coverage $\approx 2 - 2.5 \text{ kg/m}^2$ per cm of thickness</p> 

Anti-cracking tiling to screed with heating system

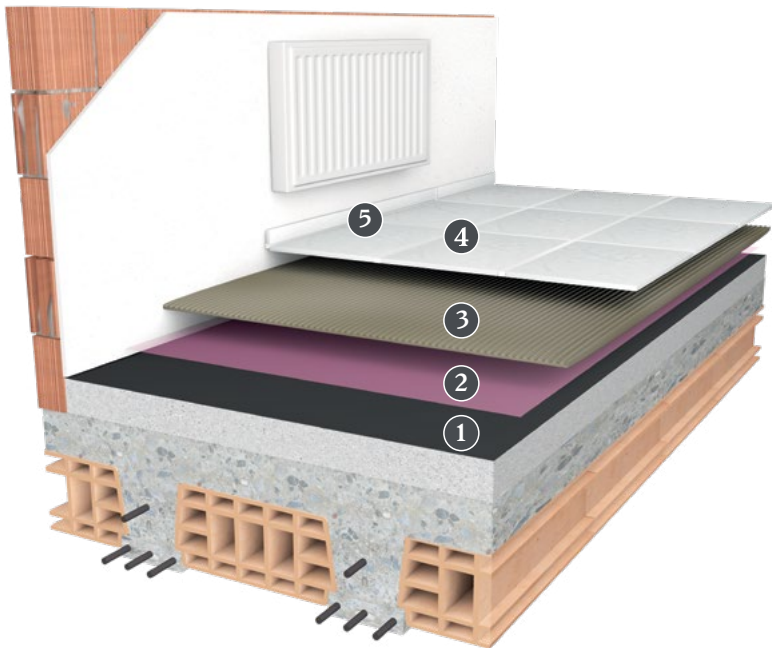
- Specifically for cancelling out cracks and joints in the substrate
- Uncoupling system to compensate for hygrometric shrinkage stresses
- Practical and fast, immediately accessible to foot traffic
- Guarantees safe laying in difficult conditions
- System with very low VOC emissions, improves the quality of air and increases the level of health protection for operators











			application tools
6		Expansion joints Silicone Color Decorative sealant for tiles and mosaic in 50 design colours.	Rating 3 Coverage see data sheet 
5		Grouting Fugabella Color Decorative Resina-cemento (resin-cement) for grouting of ceramic and porcelain tiles, mosaic and natural stone in a 50-colour design range.	Rating 2 Coverage see data sheet 
4		Tile laying H40 Advanced Rapid setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.	Rating 3 Coverage Grey $\approx 1.3 \text{ kg/m}^2$ per mm of thickness White $\approx 1.2 \text{ kg/m}^2$ per mm of thickness 
3		Anti-cracking Aquastop Green Anti-cracking waterproof membrane with high adhesion for balconies, terraces and horizontal surfaces before the laying of ceramic tiles, natural stone 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 m ² with 1 roll 20 m 
2		H40 Advanced Rapid setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.	Rating 3 Coverage Grey $\approx 1.3 \text{ kg/m}^2$ per mm of thickness White $\approx 1.2 \text{ kg/m}^2$ per mm of thickness 
1		Substrate Keracem Eco Certified, eco-friendly, normal-setting and quick-drying mineral hydraulic binder for high-performance screeds. Ideal for underfloor heating systems.	Rating 2 Coverage $\approx 2 - 2.5 \text{ kg/m}^2$ per cm of thickness 

Tiling to flooring grade bitumen or asphalt substrates

- Guarantees safe laying
- Ideal in renovation work
- Fast completion of work
- System with very low VOC emissions, improves the quality of air and increases the level of health protection for operators



		application tools
5		<p>Expansion joints</p> <p>Silicone Color</p> <p>Decorative sealant for tiles and mosaic in 50 design colours.</p> <p>Rating 3 Coverage see data sheet</p> 
4		<p>Grouting</p> <p>Fugabella Color</p> <p>Decorative Resina-cemento (resin-cement) for grouting of ceramic and porcelain tiles, mosaic and natural stone in a 50-colour design range.</p> <p>Rating 2 Coverage see data sheet</p> 
3		<p>Tile laying</p> <p>H40 Advanced</p> <p>Rapid setting, multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid. For all types and sizes of porcelain, ceramic tiles and natural stone.</p> <p>Rating 3 Coverage Grey ≈ 1.3 kg/m² per mm of thickness White ≈ 1.2 kg/m² per mm of thickness</p> 
2		<p>Preparation of substrates</p> <p>Keragrip Eco</p> <p>Certified, eco-friendly, water-based adhesion promoter for compact, absorbent and non-absorbent substrates.</p> <p>Rating 5 Coverage ≈ 0.1 – 0.2 kg/m²</p> 
<p>Substrate</p> <p>1 Bitumen/asphalt</p>		

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.

The classifications refer to the GreenBuilding Rating Manual 2012 (ref. GBR Data Report 03.24). All rights reserved. © Kerakoll. All rights to the content of this publication are reserved in accordance with applicable law.

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