H40 Icon

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



1. Superior wettability
2. Maintains its shape, thixotropic at all thicknesses
3. High open time and prolonged workability
4. With extra-pure inert minerals
5. Maximum fluidity under the spreader
6. Ideal for Swimming pool with kerakoll waterproofing systems

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Areas of application

→ Intended use:
Substrates:
- Asphalt Screeds (1)
- Smooth prefabricated concrete (1)
- Existing tiles
- Waterproofing products
- Heated floors
- Cement-based screeds
- Concrete
- Plasterboard
- Fibro-cement slabs
- Gypsum and anhydrite (1)
- Cellular concrete
- Brick
- Lime and cement-based plasters/renders
- Thermal insulation panelling systems
- Insulating panels
- Timber (1)
- Metal (1)
- Pvc (1)

(1) After application of Active Prime Fix or Active Prime Grip. For internal use.

Materials:
- Porcelain tiles
- Laminated stoneware
- Low thickness slabs
- Ceramic tiles
- Large format
- Marble - natural stone
- Glass mosaics
- Glass tiles
- Thermal and acoustic insulation
- Terracotta - Klinker

Uses:
- Adhesive and finishing
- Floors and walls
- For internal use - External
- Overlaying
- Terraces and balconies
- Facades
- Swimming pools and fountains
- Saunas and spa
- Domestic
- Commercial
- Industrial
- Street furniture

Instructions for use

→ Preparation of substrates
All substrates must be level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising. It is best to dampen highly absorbent cement-based substrates before the application or apply one coat of Active Prime Fix or Active Prime Grip.

→ Preparation
Mixing water on-site
- Grey: 6 to 7 l / 1 bag 25 kg
- White: 7.25 to 8.25 l / 1 bag 25 kg

The amount of water indicated is approximate. It is possible to obtain mixtures with consistency of variable thixotropy according to the application to be made.

→ Application
To guarantee structural adhesion it is necessary to apply a layer of adhesive sufficient to cover the entire back of the material.
Large, rectangular sizes with sides > 60 cm and low thickness sheets may require adhesive to be applied directly to the back of the material.
Check samples to make sure the adhesive has been transferred to the back of the material.
Respect structural, fractionizing, and perimeter joints present in the substrates. Abide by local existing provisions when creating elastic expansion joints.

→ Cleaning
Clean the tools and any residues of the product from the surfaces using water while the adhesive is still fresh. Once hardened, the adhesive can only be removed by mechanical means.

Special notes

→ Materials and special substrates
- Marble–natural stones and Recomposed materials: materials that are subject to deformation or staining due to water absorption require a quick-setting or reactive adhesive. Marble and natural stone in general may have characteristics that vary even with reference to materials of the same chemical and physical nature. For this reason it is essential you consult Kerakoll Global Service to request specific indications or to carry out a test on a sample of the material. In the absence of specific indications from the manufacturer, natural stone slabs with reinforcement layers, in the form of resin coating, polymer mesh, matting, etc. or treatments (for example damp courses, etc.) applied on the laying surface must be tested in advance to ensure they are compatible with the adhesive. Check for the presence of any really consistent traces of rock dust created during cutting, and remove them if found.
- Waterproofing products: adherent and floating polymer sheets, liquid bitumen and tar-based sheets or membranes require application of a laying screed on top.

→ Special applications
- insulating and soundproofing panels for interior use applied as recommended by the manufacturers.
- plasterboard and fibro-cement slabs must be firmly anchored to specific metal frames

Certificates and marks

C2 TE EN 12004 · Shock Absorbing System TESTED · GEV-EMICODE EC 1 PLUS very low emission

Abstract

High-performance laying of ceramic and porcelain tiles, mosaic, marble and natural stone with structural flexible multi-purpose gel adhesive, compliant with standard EN 12004 – class C2 TE, such as H40 Icon by Kerakoll Spa. Substrates must be compact, with no loose, flaky material, clean and fully cured, having already completed the curing period for hygrometric shrinkage. For laying, a ____ mm toothed spreader must be used for an average coverage of ≈ ___ kg/m². Existing joints must be respected, create elastic fractionizing joints every ___ m² of continuous surface. Ceramic tiles must be laid with joint-gap spacers with a width of ____ mm.

Technical Data compliant with Kerakoll Quality Standard		
Appearance	white or grey pre-mixed powder	
Pack	25 kg bags	
Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity	
Thickness	from 2 to 20 mm	
Temperature range for application	from +5 °C to +40 °C	
Pot life at +23 °C	≈ 4 h	
Open time at +23 °C (BIII tile)	≥ 60 min.	EN 12004-2
Correction time (BIII tile):		
+23 °C	≥ 20 min.	
+35 °C	≥ 15 min.	
Foot traffic/grouting of joints at +23 °C (BIa tile)	≈ 20 h	
Foot traffic/grouting of joints at +5 °C(BIa tile)	≈ 50 h	
Grouting in walls and floors at +23 °C (BIa tile)	≈ 20 h	
Ready for use at +23 °C / +5 °C (BIa tile)		
- foot traffic	≈ 2 – 3 days	
- heavy traffic	≈ 3 – 7 days	
- swimming pools (+23 °C glass mosaics)	≈ 14 days (1)	
Coverage per mm thickness	≈ 1 – 1.2 kg/m²	

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site, i.e.temperature, ventilation and absorbency level of the substrate and of the materials laid.

1) Ceramic tiles and higher adhesive thicknesses on non-absorbent substrates take longer to be ready for use.

Performance		
VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions		
Conformity	EC 1 plus GEV-Emicode	GEV certified 16969/11.01.02
HIGH-TECH		
Shear adhesion (porcelain tiles/porcelain tiles) after 28 days	≥ 1.6 N/mm²	ANSI A-118.4
Tensile adhesion (concrete/porcelain tiles) after 28 days	≥ 1.5 N/mm²	EN 12004-2
Durability test:		
- adhesion after heat ageing	≥ 1.1 N/mm²	EN 12004-2
- adhesion after water immersion	≥ 1.2 N/mm²	EN 12004-2
- adhesion after freeze-thaw cycles	≥ 1 N/mm²	EN 12004-2
- adhesion after straining cycles	≥ 1 N/mm²	SAS Technology
Vertical slip	≤ 0,5 mm	EN 12004-2
Working temperature	from -40 °C to +90 °C	
Conformity	C2 TE	EN 12004

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

Warning

→ abide by any standards and national regulations
→ do not use the adhesive to correct substrate irregularities greater than 15 mm
→ protect from direct rainfall for at least 24 hrs
→ the temperature, ventilation and absorption of the substrate and covering materials, may vary the adhesive workability and setting times
→ use the right size of notched trowel for the format of the tile or slab
→ guarantee a full-bed in all external laying operations
→ if necessary, ask for the safety data sheet
→ for any other issues, contact the Kerakoll Worldwide Global Service - info@kerakoll.ae

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