Code: P676 2026/11 EN

H40 Revolution

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



1. **Long workability with accelerated adhesion**
2. **Total safety after only 3 hours**
3. **Doesn’t cause irritation**
4. **No environmental hazard rating**
5. **Approved for marine use**

kerakoll

Areas of application

→ Use
Substrates:
- 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

Materials:
- porcelain tiles
- laminated stoneware and/or stoneware featuring backing materials
- low thickness slabs
- ceramic tiles
- large format tiles (up to 160x320 cm)
- marble - natural stone
- cement-based recomposed materials
- 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
- marine

Instructions for use

→ The instructions for use are referred, where prescribed, to Italian Standard UNI 11493 "Laying of ceramic tiles on floors and walls. Instructions for planning, laying and maintenance".

→ Preparation of the substrate (UNI 11493 - point 7.3)
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 (EN 12004-2)
- Grey ≈ 29% – 31% by weight
- White ≈ 28% – 30% by weight

Mixing water on-site
Fluid mix on floors:
- Grey ≈ 7,5 l / 1 x 25 kg bag
- White ≈ 7,5 l / 1 x 25 kg bag

Thixotropic mix on walls:
- Grey ≈ 6,5 l / 1 x 25 kg bag
- White ≈ 6 l / 1 x 25 kg bag

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 (UNI 11493 - points 7.9/11)
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.
Standard UNI 11493 – joints must divide the surface into areas of the following sizes:
- ≈ 10 m² in external use
- ≈ 25 m² in internal use

→ 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: marble and natural stones may generally have characteristics that vary even with reference to materials of the same chemical and physical nature. For this reason it is essential to consult the Technical Customer Service Kerakoll 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.
  On reactive waterproofing products (such as RM according to EN 14891), the use of a reactive adhesive is required.

→ Special applications
- Facades (UNI 11493 - point 7.13.7): the substrate should guarantee a cohesive tensile strength of ≥ 1.0 N/mm². The need to call for suitable mechanical safety anchoring must be evaluated by the designer for coverings with > 30 cm side. For coverings with a side > 60 cm, add to the mixing water a percentage of Top Latex, that it has to be assessed according the thermo-dynamic strain provided by the structure. Alternatively, a highly flexible or ultra-flexible adhesive (H40 Gel or H40 Tech) may be used. Always apply a layer of adhesive on the substrate and on the back of the material (double-spread technique).

Certificates and marks

CE EN 12004 · C2F TE EN12004 · GT-1 TESTED · Shock Absorbing System TESTED · EPD-IES-0034565 environdec.com (White) · EPD-IES-0033102 environdec.com (Grey) · GEV-EMICODE EC 1 PLUS very low emission

ÉMISSIONS DANS L'AIR INTÉRIEUR* A+ (A+ A B C)

** émission dans l'air intérieur Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).*

Abstract

High-performance laying of ceramic and porcelain tiles, mosaic, marble and natural stone with structural flexible multi-purpose gel adhesive, with accelerated adhesion, compliant with standard EN 12004 – class C2F TE, GT-1 classified, such as H40 Revolution 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 – 5 kg	
Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity	
Thickness	from 2 to 15 mm	
Temperature range for application	from +5 °C to +35 °C	UNI 11493 - 8.3
Pot life at +23 °C		
- grey	≈ 1 hr	
- white	≈ 1 hr	
Open time at +23 °C (BIII tile):		
- grey	≥ 45 min.	EN 12004-2
- white	≥ 45 min.	EN 12004-2
Open time at +35 °C (BIII tile):		
- grey	≥ 25 min.	
- white	≥ 25 min.	
Correction time (BIII tile):		
+23 °C	≥ 6 min.	
+35 °C	≥ 5 min.	
Foot traffic/grouting of joints at +23 °C (BIa tile):		
- grey	≈ 3 hrs	
- white	≈ 3 hrs	
Foot traffic/grouting of joints at +5 °C(BIa tile):		
- grey	≈ 7 hrs	
- white	≈ 7 hrs	
Grouting in walls at +23 °C (BIa tile)		
- grey	≈ 2 hrs	
- white	≈ 2 hrs	
Ready for use at +23 °C / +5 °C (BIa tile)		
- light foot traffic	≈ 6 – 16 hrs	
- heavy traffic	≈ 24 – 28 hrs	
- swimming pools (+23 °C)	≈ 7 days	
Coverage	≈ 1.25 kg/m² per mm of thickness	

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.

Performance		
VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions		
Conformity	EC 1 plus GEV-Emicode	GEV Certified 6193/11.01.02
HIGH-TECH		
Shear adhesion (porcelain tiles/porcelain tiles) after 28 days	≥ 2.5 N/mm²	ANSI A-118.4
Tensile adhesion after 6 hrs	≥ 0.5 N/mm²	EN 12004-2
Tensile adhesion (concrete/porcelain tiles) after 28 days	≥ 1 N/mm²	EN 12004-2
Durability test:		
- adhesion after heat ageing	≥ 1 N/mm²	EN 12004-2
- adhesion after water immersion	≥ 1 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
Flexibility test according to GT method:		
- torsional moment (eccentric shear on 5x5 cm sample)	≥ 2.5 KN	
- bending moment (eccentric traction on 5x5 cm sample)	≥ 0.2 KN	
classification	GT-1	GT method
Working temperature	from -40 °C to +90 °C	
Conformity	C2F 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 6 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 Kerakoll Technical Customer Service:
+ 39 0536.811.516
www.kerakoll.com/contatti

Kerakoll Quality System ISO 9001 CERTIFIED IT10/0327
Kerakoll Quality System ISO 45001 CERTIFIED 18586-I

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