Code: P675 2026/11 EN

H40 Extreme

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



KERAKOLL MONOPACK B A SYSTEM

HYBRID GEL

1. **Extreme adhesion**
2. **Extreme deformability**
3. **Extreme fluidity**

kerakoll

Areas of application

→ Use
Substrates:
- existing tiles
- heated floors
- cement-based screeds
- concrete
- plasterboard
- fibro-cement slabs
- gypsum and anhydrite (1)
- cellular concrete
- brick
- lime and cement-based plasters/renders
- finished and subsequently plastered thermal insulation panelling systems
- cracked screeds
- wood – metal – sheet metal (2)
- rubber floors – PVC (2)
- high-thickness coatings in epoxy and polyurethane resin
- aluminium honey-comb
- pre-formed panels for screedless heating systems, coupled with aluminium sheet on the surface

(1) Apply 1 coat of EP21 as a dust consolidator. Internal use only.
(2) Clean with Keragrip Pulep.

Materials:
- porcelain tiles
- laminated stoneware and/or stoneware featuring backing materials
- porcelain tile with resin back
- large format tiles (up to 160x320 cm)
- low thickness slabs
- ceramic tiles
- marble - natural stone
- marble with resin back
- resin-based recomposed materials
- cement-based recomposed materials
- glass mosaics
- glass tiles
- thermal and acoustic insulation (with the exclusion of polystyrene and Styrofoam or any other material that can be attacked by plasticizers)
- terracotta - klinker
- metal tiles

Uses:
- adhesive
- interior waterproofing product
- floors and walls
- for internal use - external
- overlaying
- terraces and balconies
- facades
- swimming pools and fountains
- saunas and spa
- domestic
- commercial
- industrial
- street furniture

Do not use:
- in direct contact with polystyrene (Styrofoam, EPS, XPS, etc.)
- on Nanoflex No Limits waterproof gel-membrane
- on cement-polymer waterproofing sheathings, check the suitability on the producer's technical data sheets
- on substrates that are not fully dry and subject to moisture rising

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 the substrates must be flat, compact, resistant, free from dust, loose particles and debonding agents and not be subject to moisture rising.

→ Adhesive preparation
Single Pack: Part B is found inside the pack. Respect the preset ratio of 8.6 : 1.4.

Remix part B into the bucket containing part A, being careful to mix the two parts uniformly until a smooth, even coloured mixture is obtained.
Packs of H40 Extreme must be stored at a temperature of ≈ +20 °C for at least 2/3 days prior to use.

→ Application (UNI 11493 - points 7.9/11)
H40 Extreme can be applied with a suitable toothed spreader, to be chosen according to the size and type of the tile. Using the smooth part of the trowel, apply a fine layer of product, pressing down onto the substrate in order to ensure maximum adhesion. Press down each tile into the ribbed adhesive to allow for maximum coverage of the surface.

Instructions for use

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 H40 Extreme from the coated surfaces with water while the adhesive is still fresh. Once hardened, the adhesive can only be removed mechanically or using Fuga-Shock cleaner.

Special notes

→ Materials and special substrates
- Marble–natural stones and Recomposed materials: check for the presence of any really consistent traces of rock dust created during cutting, and remove them if found.
- Special substrates: adherent and floating polymer sheets, liquid bitumen and tar-based sheets or membranes require application of a laying screed on top.
- H40 Extreme is suitable for laying on floors on screedless underfloor heating systems composed of panels with a core in pre-shaped insulating material coupled on the surface with a heat-conducting aluminium sheet. H40 Extreme will be applied directly on the aluminium sheet without the use of primer after cleaning the aluminium itself from dust or debonding agents.

→ 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. Always apply a layer of adhesive on the substrate and on the back of the material (double-spread technique).
- Panelling insulation systems: prior to the application, carry out a reinforced render cycle, mechanically fixed to the substrate, with a minimum thickness of 10 mm.

Certificates and marks

CE EN 12004 · R2 T EN 12004 · GT-3 TESTED · Shock Absorbing System TESTED · EPD-IES-0034733 environdec.com · ÉMISSIONS DANS L'AIR INTÉRIEUR C (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 porcelain tiles, ceramic tiles, mosaic, marble, granite and natural stone on deformable substrates will be carried out using a highly deformable and workable hybrid gel adhesive that has been tested under the most extreme working conditions, compliant with standard EN 12004 – class R2 T, GT-3 classified, such as H40 Extreme by Kerakoll Spa. The substrate must be clean, free from any loose, flaky parts and adequately matured. A ____ mm toothed spreader must be used for an average coverage of ≈ ___ kg/m². Create elastic fractionizing joints every ___ m². Tiles must be laid with joints of ___ mm width.

Technical Data compliant with Kerakoll Quality Standard		
Appearance	Part A white paste / Part B white paste	
Mixing ratio	Part A : Part B = 8.6 : 1.4	
Pack	monopack 10 kg (8,6 +1,4 kg)	
Shelf life	≈ 24 months from production in the original sealed packaging	
Warning	Protect from frost. Avoid direct exposure to sunlight and sources of heat.	
Thickness	from 2 to 15 mm	
Temperature range for application	from +5 °C to +35 °C	UNI 11493 - 8.3
Pot life:		
- +23 °C	≈ 110 min.	
- +35 °C	≈ 80 min.	
Open time (BIII tile):		
- +23 °C	≈ 180 min.	
- +35 °C	≈ 90 min.	
Correction time (BIII tile):		
- +23 °C	≥ 120 min.	
- +35 °C	≥ 60 min.	
Foot traffic/grouting of joints (BIa tile):		
- +23 °C	≈ 4 hrs	
- +5 °C	≈ 15 hrs	
Ready for use at +23 °C / +5 °C (BIa tile)		
- light foot traffic	≈ 6 – 20 hrs	
- heavy traffic	≈ 12 – 24 hrs	
- swimming pools (+23 °C)	≈ 3 days	
Coverage	≈ 1.45 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		
HIGH-TECH		
Shear adhesion after 7 days	≥ 7,5 N/mm²	EN 12004-2
Shear adhesion after water immersion	≥ 5 N/mm²	EN 12004-2
Shear adhesion after thermal shock	≥ 5,5 N/mm²	EN 12004-2
Shear adhesion after immersion in chlorine water	≥ 3 N/mm²	EN 12004-2
Adhesion test according to EN 12004 for Class C (cement based) adhesives		
Tensile adhesion (concrete/porcelain tile):		
- after 6 hrs	≥ 2,4 N/mm²	EN 12004-2
- after 28 days	≥ 4,5 N/mm²	EN 12004-2
Durability test:		
- adhesion after heat ageing	≥ 4 N/mm²	EN 12004-2
- adhesion after water immersion	≥ 2,5 N/mm²	EN 12004-2
- adhesion after freeze-thaw cycles	≥ 2 N/mm²	EN 12004-2
- adhesion after straining cycles	≥ 2 N/mm²	SAS Technology
Vertical slip	≤ 0,5 mm	EN 12004-2
Transversal deformation	≥ 50 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)	≥ 0,6 KN	
classification	GT-3	GT method
Working temperature	from -40 °C to +90 °C	
Conformity	R2 T	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 against direct rain for at least 12 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
→ for laying on cement-polymer waterproofing coverings, check the suitability on the producer's technical data sheet
→ do not use in direct contact with polystyrene (Styrofoam, EPS, XPS, etc.)
→ 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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