H40 Extreme

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



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

Rating 2



- × Regional Mineral ≥ 30%
- \times VOC Low Emission
- ✓ Solvent ≤ 5 g/kg
- × Low Ecological Impact
- √ Health Care

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Areas of application

→ Intended use:

Substrates:

- existing tiles
- heating systems
- cement-based screeds
- asphalt screeds
- concrete
- plasterboard
- fibro-cement slabs
- gypsum and anhydrite
- cellular concrete
- brick
- lime and cement-based plasters/renders
- finished and subsequently plastered thermal insulation panelling systems
- impact noise insulation sheets
- cracked screeds
- uncured damp screeds
- wood metal sheet metal
- rubber floors pvc
- high-thickness coatings in epoxy and polyurethane resin
- grp/fibreglass

Materials:

- porcelain tiles
- laminated stoneware
- porcelain tile with resin back

- very large formats
- low thickness slabs
- ceramic tiles
- marble natural stone
- marble with resin back
- recomposed materials
- cement-based recomposed materials
- glass mosaics
- glass tiles
- thermal and acoustic insulation
- terracotta klinker
- metal tiles

Uses:

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

Instructions for use

→ Preparation of the substrate

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

It is best to apply a coat of diluted Primer A Eco on very absorbent cement-based substrates.

→ 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. For ease of mixing and application, it is recommend to store packs of H40 Extreme at a temperature of $\approx +20$ °C for at least 2/3 days prior to use.

→ Application

H40 Extreme can be applied with a suitable notched trowel, 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

To guarantee structural adhesion it is necessary to apply a layer of adhesive sufficient to cover the entire back of the coating 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.

Create elastic expansion joints:

- \approx 10 m² in external applications,
- $\approx 25 \text{ m}^2$ in internal applications,
- every 8 metres in long, narrow applications. Respect all structural, fractionizing and perimeter joints present in the substrates.

→ 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 Eco cleaner.

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Special notes

- → Pre-treatment of special substrates
 Timber, metal and sheet metal, PVC and rubber:
 clean with Keragrip Eco Pulep.
 Gypsum and anhydrite (internal use only): apply
 1 coat of EP21 as a dust consolidator
 As treating special substrates is difficult to
 classify in a standard manner, it is always
 advisable to contact Kerakoll Global Service
 and/or request a site inspection by a
 GreenBuilding Consultant. In any case it is
 essential to carefully read the technical data
 sheet on how to use the indicated primers
 properly.
- → Materials and special substrates
 Marble-natural stones and recomposed
 materials: the materials subjected to high
 deformation or staining due to water absorption
 need a reactive adhesive such as H40 Extreme.
 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. 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.
- → Special applications
 Facades: 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 directly on the back of the material.
 In insulation panelling systems, carry out a reinforced plaster/render cycle, mechanically fixed to the substrate, with a minimum thickness of 10 mm.

Certificates and marks









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Technical Data compliant with Ker	akoll Quality Standard	
Shelf life	\approx 24 months from the date of production in the original unopened packaging; protect from frost and humidity	
Pack	monopack 10 kg (8,6 +1,4 kg)	
Mixing ratio	part $A : part B = 8.6 : 1.4$	
Adhesive thickness	from 2 to 15 mm	
Temperature of the air, substrates and materials	from +5 °C to +35 °C	
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 (B	Ia tile)	
- light foot traffic	≈ 6 – 20 hrs	
- heavy traffic *	≈ 12 – 24 hrs	
- swimming pools (+23 °C)	≈ 3 days	
Coverage per mm of thickness	≈ 1.45 kg/m ²	

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. * see section Special notes to reduce timing.

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Performance		
HIGH-TECH		
Shear adhesion after 7 days	≥ 7,5 N/mm ²	EN 12004-2
Shear adhesion after water immersion	≥ 5 N/mm²	EN 12004-2
Shear adhesion after thermal shock	≥ 5.5 N/mm ²	EN 12004-2
Shear adhesion after immersion in chlorine water	≥ 3 N/mm ²	EN 12004-2
Adhesion test according to EN 12004	4 for class C (cement based) adhesi	ves
Tensile adhesion (concrete/porcelain tile):		
- after 6 hrs	≥ 2.4 N/mm ²	EN 12004-2
- after 28 days	≥ 4.5 N/mm ²	EN 12004-2
Durability test:		
- adhesion after heat ageing	$\geq 4 \text{ N/mm}^2$	EN 12004-2
- adhesion after water immersion	≥ 2.5 N/mm ²	EN 12004-2
- adhesion after freeze-thaw cycles	≥ 2 N/mm ²	EN 12004-2
- adhesion after straining cycles	≥ 2 N/mm ²	SAS Technology
Transversal deformation	≥ 50 mm	EN 12004-2
Working temperature	from -40 °C to +90 °C	

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

Warning

Performance

- → Product for professional use
- → abide by any standards and national regulations
- ightarrow 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 toothed spreader 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 contact with polystyrene (Styrofoam, EPS, XPS, etc...), even if smoothed
- → 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 01772 456 831 info@kerakoll.co.uk



The Rating classifications refer to the GreenBuilding Rating Manual 2012. This information was last updated in May 2023 (ref. GBR Data Report - 05.23); please note that additions and/or amendments to this information may be made over time by KERAKOLL Spa; for the latest version, see www.kerakoll.com. KERAKOLL SpA shall therefore be liable for the validity, accuracy and updating of information provided only when taken directly from its institutional website. The technical data sheet given here is based on our technical and practical knowledge. As it is not possible for us to directly check the conditions in your building yards and the execution of the work, this information represents general indications that do not bind Kerakoll in any way. Therefore, it is advisable to perform a preliminary test to verify the suitability of the product for your purposes.