

H40 Extreme

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



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

Rating 2

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



Areas of application

→ 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 use - external
- 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 Primeplus on very dusty 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 recommended to store packs of H40 Extreme at a temperature of $\approx +20^{\circ}\text{C}$ for at least 2/3 days prior to use.

→ Application

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.

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 $> 60\text{ cm}$ 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:

- $\approx 10\text{ m}^2$ 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 cleaner.

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 $\geq 1.0 \text{ N/mm}^2$.

The need to call for suitable mechanical safety anchoring must be evaluated by the designer for coverings with $> 30 \text{ cm}$ side.

Always apply a layer of adhesive directly on the back of the material (per India tile/stone).

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



Technical Data compliant with Kerakoll Quality Standard	
Shelf life	≈ 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 (BIa 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.

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
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

- Product for professional use

→ 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 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 by calling: 01772 456 831 or emailing: info@kerakoll.co.uk

Kerakoll

Quality

System

180 9001

CERTIFIED

1722/00000981

The Rating classifications refer to the GreenBuilding Rating Manual 2013. This information was last updated in January 2025 (ref. GBR Data Report – 01.25); please note that additions and/or amendments 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 of your building site 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.