

H40 Tech

Multipurpose, ultra-flexible, structural gel-adhesive, thixo & fluid. For ceramic, porcelain and natural stone of all types and formats.



GEL
TECHNOLOGY

1. Superior levels of adhesion and flexibility, maximum safety on difficult substrates
2. Excellent workability
3. Long adjustable time
4. Ideal for laying large-format slabs
5. Suitable for laying on facades

kerakoll

Areas of application

→ Use

Substrates:

- existing tiles
- waterproofing products
- cement-based screeds
- concrete
- plasterboard
- fibro-cement slabs
- brick/blockwork
- lime and cement-based plasters/renders

Materials:

- porcelain tiles
- laminated stoneware
- low thickness slabs
- ceramic tiles
- large format tiles
- marble - natural stone
- cement-based recomposed
- glass mosaics
- glass tiles
- 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

Instructions for use

→ Preparation of the substrate

All surfaces must be dimensionally stable according to IS 1443-1972, level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising.

It is good practice to dampen highly absorbent concrete substrates or apply a suitable primer.

→ Preparation

Mixing water on-site

For low thickness laying and full wettability:

≈ 4.4 - 5.2 litres per 20 kg bag

The amount of water indicated on the packaging is indicative. 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 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:

- ≈ 10 m² in external applications,
- ≈ 25 m² in internal applications,
- every 8 metres in long, narrow applications.

Respect all structural, fractionizing and perimeter joints present in the substrates.

Special notes

→ Pre-treatment of special substrates

Gypsum and anhydrite (internal use only): with suitable primer.

As treating special surfaces 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 Kerakoll 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: materials that are known to be 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

Facades: the surface 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 tile/stone.

Certificates and marks



Abstract

High-performance laying of ceramic and porcelain tiles, mosaic, marble and natural stone with structural highly flexible multi-purpose Gel Adhesive, compliant with standard EN 12004 – class C2 TE S2, such as H40 Tech 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 $\approx$ ____ kg/m^2 . Existing joints must be respected, create elastic fractionizing joints every ____ m^2 of continuous surface. Ceramic tiles must be laid with joint-gap spacers with a width of ____ mm.

Technical Data compliant with Kerakoll Quality Standard		
Pack	20 kg bags	
Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity	
Adhesive thickness	up to 15 mm	
Temperature of the air, substrates and materials	from +5 °C to +35 °C	
Pot life at +23 °C:		
- Grey	≈ 6 hrs	
- White	≈ 6 hrs	
Open time at +27 °C (BIII tile):		
- Grey	≥ 40 min.	EN 12004-2
- White	≥ 40 min.	EN 12004-2
Correction time at +27 °C (BIII tile)	≥ 60 min.	EN 12004-2
Grouting in walls at +27 °C (BIa tile):		
- Grey	≈ 24 hrs	
- White	≈ 24 hrs	
Ready for use at +23 °C / +35 °C (BIa tile):		
- foot traffic	≈ 36 hrs	
- heavy traffic	≈ 72 hrs	
- swimming pools (+23 °C)	≈ 14 days	
Consumption per mm of thickness:		
- Grey	≈ 1.3 kg/m ²	
- White	≈ 1.2 kg/m ²	

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

Performance		
VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions		
Conformity	EC 1 plus GEV-Emicode	GEV certified 14613/11.01.02
HIGH-TECH		
Tensile adhesion strength (dry condition)	≥ 2.30 N/mm ²	IS 15477:2019
Tensile adhesion strength (wet condition)	≥ 1.20 N/mm ²	IS 15477:2019
Shear adhesion strength (dry condition)	≥ 2.30 N/mm ²	IS 15477:2019
Shear adhesion strength (heat ageing condition)	≥ 2.80 N/mm ²	IS 15477:2019
Shear adhesion strength (wet condition)	≥ 1 N/mm ²	IS 15477:2019
Durability test:		
- adhesion after heat ageing	≥ 2.80 N/mm ²	EN 12004-2
- adhesion after water immersion	≥ 1.20 N/mm ²	EN 12004-2
- adhesion after freeze-thaw cycles	≥ 2.00 N/mm ²	EN 12004-2
- adhesion after straining cycles	≥ 1 N/mm ²	SAS Technology
Vertical slip	≤ 0.5 mm	EN 12004-2
Transversal deformation	≥ 5 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 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 India Helpline (Toll Free) 1800 102 4957 – info@kerakollindia.com

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