

# H40 Gel

**Multipurpose Gel-Adhesive, structural, flexible, thixotropic & fluid. For ceramic, porcelain and natural stone of all types and formats.**



1. High adhesion and deformability
2. Excellent workability
3. Ideal for facades, swimming pools and heavy foot traffic environments
4. Suitable for residential, commercial and infrastructure projects

## Rating 2

W G

- |   |   |                            |
|---|---|----------------------------|
| × | × | Regional Mineral ≥ 60%     |
| × | × | Recycled Mineral ≥ 30%     |
| × | × | CO <sub>2</sub> ≤ 250 g/kg |
| ✓ | ✓ | VOC Very Low Emission      |
| ✓ | ✓ | Recyclable                 |



**kerakoll**

---

## Areas of application

### → Intended use

#### Surfaces:

- Existing tiles
- Waterproofing products
- Cement-based screeds
- Concrete substrates
- Plasterboard
- Fibro-cement slabs
- Brick/blockwork
- Lime and cement-based plasters/renders
- Thermal insulation panelling systems
- Insulating panels
- Impact noise insulation sheets

#### Materials:

- Porcelain tiles
- Laminated stoneware
- Low thickness slabs
- Ceramic tiles
- Large size

- 300x150 cm slabs
- Marble - natural stone
- 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

---

## Instructions for use

### → Preparation of the surface

All surfaces must be dimensionally stable according to IS 1443-2018, 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 surfaces or apply a coat of Primer A Eco.

### → Preparation

#### Mixing water on-site

For low thickness fixing and full wettability:

7.0 - 8.5 litres of clean water per bag

The amount of water to be added, indicated on the packaging, is an approximate guide. It is possible to obtain mixtures with a more or less non-sag consistency, depending on the type of application.

### → 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:

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

## Special notes

### → Pre-treatment of special surfaces

Gypsum and anhydrite (internal use only):

Primer A Eco

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 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 surfaces

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 fixing 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.

For coverings with  $> 60 \text{ cm}$ , add to the mixing water a percentage of Top Latex Eco to assess the function of the thermo-dynamic strain provided by the structure.

Always apply a layer of adhesive directly on the back of the tile/stone.

## Certificates and marks



**Technical Data compliant with Kerakoll Quality Standard**

Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity	
Pack	25 kg	
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	≈ 4 hrs	
- White	≈ 4 hrs	
Pot life at +35 °C (BIII tile):		
- Grey	≈ 3 hrs	
- White	≈ 3 hrs	
Open time at +23 °C (BIII tile):		
- Grey	≥ 60 min.	EN 12004-2
- White	≥ 60 min.	EN 12004-2
Open time at +35 °C (BIII tile):		
- Grey	≥ 20 min.	
- White	≥ 20 min.	
Correction time (BIII tile):		
+23 °C	≥ 15 min.	
Foot traffic/grouting of joints at +23 °C (BIa tile):		
- Grey	≈ 20 hrs	
- White	≈ 20 hrs	
Foot traffic/grouting of joints at +35 °C (BIa tile):		
- Grey	≈ 12 hrs	
- White	≈ 12 hrs	
Grouting in walls at +23 °C (BIa tile)		
- Grey	≈ 18 hrs	
- White	≈ 18 hrs	
Grouting in walls at +35 °C (BIa tile):		
- Grey	≈ 8 hrs	
- White	≈ 8 hrs	
Ready for use at +23 °C / +35 °C (BIa tile):		
- light foot traffic	≈ 3 – 2 days	
- heavy traffic	≈ 4 – 3 days	
- swimming pools (+23 °C)	≈ 14 days	
Coverage per mm thickness:		
- Grey	≈ 1,3 kg/m <sup>2</sup>	
- White	≈ 1,2 kg/m <sup>2</sup>	

<b>Performance</b>		
<b>VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions</b>		
Conformity	EC 1 Plus GEV-Emicode	GEV certified 14613/11.01.02
<b>HIGH-TECH</b>		
Shear adhesion (porcelain tiles/ porcelain tiles) after 28 days	$\geq 2,5 \text{ N/mm}^2$	ANSI A-118.4
Tensile adhesion (concrete/porcelain tiles) after 28 days	$\geq 2,5 \text{ N/mm}^2$	EN 12004-2
<b>Durability test:</b>		
- adhesion after heat ageing	$\geq 1 \text{ N/mm}^2$	EN 12004-2
- adhesion after water immersion	$\geq 1 \text{ N/mm}^2$	EN 12004-2
- adhesion after freeze-thaw cycles	$\geq 1 \text{ N/mm}^2$	EN 12004-2
- adhesion after straining cycles	$\geq 1 \text{ N/mm}^2$	SAS Technology
Vertical slip	$\leq 0,5 \text{ mm}$	EN 12004-2
Transversal deformation	$\geq 2,5 \text{ mm}$	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

- Product for professional use
- abide by any standards and national regulations
- do not use the adhesive to correct surface irregularities greater than 15 mm
- protect from direct rainfall for at least 24 hrs
- the temperature, ventilation and absorption of the surface and covering materials to be fixed may cause variations in the adhesive workability and setting times
- use the right size of toothed trowel for the format of the tile or slab
- guarantee a full-bed in all external fixing operations
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll India Helpline (Toll Free) 1800-200-6550 - [info@kerakollindia.com](mailto:info@kerakollindia.com)

The Rating classifications refer to the GreenBuilding Rating Manual 2013. This information was last updated in February 2022 (ref. GBR Data Report - 01.22); please note that additions and/or amendments may be made over time by KERAKOLL SpA; for the latest version, see [www.kerakoll.com](http://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.