

# H40 Tech

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



**GEL**  
TECHNOLOGY

1. Superior levels of adhesion and flexibility, maximum safety on difficult substrates
2. Excellent fluidity under the spreader
3. Long correction time, easily adjustable
4. Ideal for laying large-format slabs, including slabs featuring backing materials
5. Suitable for laying on facades

**kerakoll**

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## Areas of application

### → Use

#### Substrates:

- existing tiles
- waterproofing products
- heated floors
- cement-based screeds
- concrete
- plasterboard
- fibro-cement slabs
- gypsum and anhydrite <sup>(1)</sup>
- cellular concrete
- brick
- lime and cement-based plasters/renders
- thermal insulation panelling systems
- insulating panels
- timber <sup>(1)</sup>
- metal <sup>(1)</sup>
- PVC <sup>(1)</sup>
- substrates with stable cracks

*(1) After application of Active Prime Fix or Active Prime Grip.  
Internal use only.*

#### Materials:

- porcelain tiles
- laminated stoneware and/or stoneware featuring backing materials

- porcelain tile with resin back
- low thickness slabs
- ceramic tiles
- large format tiles (up to 160x320 cm)
- marble - natural stone
- marble with resin back
- cement-based recomposed
- 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
- street furniture

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## 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 substrates

Preparation of the substrate (UNI 11493 - point 7.3)

All substrates must be level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising. It is best to dampen highly absorbent cement-based substrates before the application or apply one coat of Active Prime Fix or Active Prime Grip.

### → Preparation

Mixing water (EN 12004-2):

- Grey ≈ 28% – 30% by weight

Mixing water on-site

Fluid mix on floors:

- Grey ≈ 5,8 l / 1 bag 20 kg

Thixotropic mix on walls:

- Grey ≈ 5,2 l / 1 x 20 kg bag

The amount of water indicated is approximate. It is possible to obtain mixtures with consistency of variable thixotropy according to the application to be made.

### → Application (UNI 11493 - points 7.9/11)

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 m<sup>2</sup> in external use
- ≈ 25 m<sup>2</sup> in internal use

### → Cleaning

Clean the tools and any residues of the product from the surfaces using water while the adhesive is still fresh. Once hardened, the adhesive can only be removed by mechanical means.

## Special notes

### → Materials and special substrates

- Marble-natural stones and recomposed materials: materials subject to deformation or staining due to water absorption need a rapid setting (H40 Revolution) or reactive (H40 Extreme) adhesive. Marble and natural stones may generally have characteristics that vary even with reference to materials of the same chemical and physical nature. For this reason it is essential to consult the Technical Customer Service Kerakoll 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. On reactive waterproofing products (such as RM according to EN 14891), the use of a reactive adhesive is required.

### → Special applications

- Facades (UNI 11493 - point 7.13.7): 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 on the substrate and on the back of the material (double-spread technique).

## Certificates and marks



\* 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 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, GT-3 classified, 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  $\approx$  \_\_\_\_  $\text{kg/m}^2$ . Existing joints must be respected, create elastic fractionizing joints every \_\_\_\_  $\text{m}^2$  of continuous surface. Ceramic tiles must be laid with joint-gap spacers with a width of \_\_\_\_ mm.

| Technical Data compliant with Kerakoll Quality Standard |                                                                                     |                 |
|---------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|
| Appearance                                              | grey pre-mixed powder                                                               |                 |
| Pack                                                    | 20 kg bag                                                                           |                 |
| Shelf life                                              | ≈ 12 months from production in the original sealed packaging, protect from humidity |                 |
| Thickness                                               | from 2 to 15 mm                                                                     |                 |
| Temperature range for application                       | from +5 °C to +35 °C                                                                | UNI 11493 - 8.3 |
| Pot life at +23 °C                                      |                                                                                     |                 |
| - Grey                                                  | ≈ 5 h                                                                               |                 |
| Open time at +23 °C (BIII tile):                        |                                                                                     |                 |
| - Grey                                                  | ≥ 60 min.                                                                           | EN 12004-2      |
| Open time at +35 °C (BIII tile):                        |                                                                                     |                 |
| - Grey                                                  | ≥ 20 min.                                                                           |                 |
| Correction time (BIII tile):                            |                                                                                     |                 |
| +23 °C                                                  | ≥ 20 min.                                                                           |                 |
| +35 °C                                                  | ≥ 15 min.                                                                           |                 |
| Foot traffic/grouting of joints at +23 °C (BIa tile):   |                                                                                     |                 |
| - grey                                                  | ≈ 24 h                                                                              |                 |
| Foot traffic/grouting of joints at +5 °C (BIa tile):    |                                                                                     |                 |
| - grey                                                  | ≈ 50 h                                                                              |                 |
| Grouting in walls at +23 °C (BIa tile)                  |                                                                                     |                 |
| - grey                                                  | ≈ 20 h                                                                              |                 |
| Ready for use at +23 °C / +5 °C (BIa tile)              |                                                                                     |                 |
| - light foot traffic                                    | ≈ 2 – 3 days                                                                        |                 |
| - heavy traffic                                         | ≈ 3 – 7 days                                                                        |                 |
| - swimming pools (+23 °C)                               | ≈ 14 days                                                                           |                 |
| Coverage                                                | ≈ 1.25 kg/m <sup>2</sup> 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                                                        |                       |                              |
| VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions |                       |                              |
| Conformity                                                         | EC 1 plus GEV-Emicode | GEV Certified 19095/11.01.02 |
| HIGH-TECH                                                          |                       |                              |
| Shear adhesion (porcelain tiles/porcelain tiles) after 28 days     | ≥ 2,5 N/mm²           | ANSI A-118.4                 |
| Tensile adhesion (concrete/porcelain tiles) after 28 days          | ≥ 2,5 N/mm²           | EN 12004-2                   |
| Durability test:                                                   |                       |                              |
| - adhesion after heat ageing                                       | ≥ 2,5 N/mm²           | EN 12004-2                   |
| - adhesion after water immersion                                   | ≥ 1 N/mm²             | EN 12004-2                   |
| - adhesion after freeze-thaw cycles                                | ≥ 1 N/mm²             | EN 12004-2                   |
| - adhesion after straining cycles                                  | ≥ 1 N/mm²             | SAS Technology               |
| Vertical slip                                                      | ≤ 0,5 mm              | EN 12004-2                   |
| Transversal deformation                                            | ≥ 5 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                                                         | C2 TE S2              | 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 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 Kerakoll Technical Customer Service:  
+ 39 0536.811.516  
[www.kerakoll.com/contatti](http://www.kerakoll.com/contatti)



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