

# H40 Extreme

**Structural, multi-purpose, extra-flexible, extra-workable Gel-Adhesive.**

**For ceramic, porcelain and natural stone of all types and formats.**



1. Extreme flexibility
2. Extreme adhesion
3. Extreme workability
4. High strength Polyurethane base adhesive

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## Areas of application

### → Use

#### Substrates:

- existing tiles
- cement-based 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
- wood – metal – sheet metal
- rubber floors – PVC
- high-thickness coatings in epoxy and polyurethane resin
- aluminium honey-comb

### Materials:

- porcelain tiles
- laminated stoneware and/or stoneware featuring backing materials
- porcelain tile with resin back
- large format tiles
- low thickness slabs
- ceramic tiles
- marble - natural stone
- marble with resin back
- resin-based recomposed materials
- cement-based recomposed materials
- glass mosaics
- glass tiles
- thermal and acoustic insulation
- terracotta - klinker
- metal tiles

### Uses:

- adhesive
- floors and walls
- for internal use - external
- overlaying
- terraces and balconies
- facades
- swimming pools and fountains
- saunas and spa
- domestic
- commercial
- industrial

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## Instructions for use

### → Preparation of substrates

Substrates must be compact and consistent, free from dust, oil and grease, free from any rising damp, with no loose, flaky, or imperfectly anchored parts. The surface must be stable, without cracks and have already completed the curing period of hygrometric shrinkage. Uneven areas must be corrected with suitable smoothing and finishing products.

### → Preparation

H40 Extreme is prepared by mixing together parts A and B from the bottom upwards, using a low-rev ( $\approx 400/\text{min.}$ ) helicoidal agitator, respecting the preset ratio of 3.2 : 0.8 of the packs. Pour part B into the bucket containing part A, being careful to mix the two parts uniformly until a smooth, even coloured mixture is obtained. The user must mix a quantity of

adhesive which can be consumed within 1 hour at  $+23\text{ }^{\circ}\text{C}$  / 50% R.H. Packs of H40 Extreme must be stored at a temperature of  $\approx +20\text{ }^{\circ}\text{C}$  for at least 2/3 days prior to use.

### → Application

H40 Extreme must be applied with a suitable, toothed trowel of the type and dimensions most appropriate for the format and type of tiles used. Using the smooth part of the trowel, apply a fine layer of product, pressing down onto the surface in order to ensure maximum adhesion. Press down each tile into the ribbed adhesive to allow for maximum coverage of the surface. In environments subjected to heavy traffic, in external applications and wherever high-elasticity fixing system is required, use the double-spread technique to ensure 100% application of the product to the rear of the tiles.

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## Instructions for use

### → Cleaning

Residues of H40 Extreme can be cleaned from tools and covered surfaces with water and alcohol while the adhesive is still fresh. Once cured, the adhesive can only be removed by mechanical means.

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## Special notes

### → Materials and special substrates

- Marble–natural stones and Recomposed materials: 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 (UNI 11493 - point 7.13.7): the substrate should guarantee a cohesive tensile strength of  $\geq 1.0 \text{ N/mm}^2$ . Always apply a layer of adhesive on the substrate and on the back of the material (double-spread technique).

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## Certificates and marks



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## Abstract

High-performance laying of porcelain tiles, ceramic tiles, mosaic, marble, granite and natural stone on deformable substrates will be carried out using a highly deformable and workable hybrid gel adhesive that has been tested under the most extreme working conditions, compliant with standard EN 12004 – class R2 T, such as H40 Extreme by Kerakoll Spa. The substrate must be clean, free from any loose, flaky parts and adequately matured. A \_\_\_ mm toothed spreader must be used for an average coverage of  $\approx$  \_\_\_  $\text{kg/m}^2$ . Create elastic fractionizing joints every \_\_\_  $\text{m}^2$ . Tiles must be laid with joints of \_\_\_ mm width.

**Technical Data compliant with Kerakoll Quality Standard**

|                                   |  |                 |
|-----------------------------------|--|-----------------|
| Appearance                        | Part A white paste / Part B white paste                      |                 |
| Mixing ratio                      | Part A : Part B = 3.2 : 0.8                                  |                 |
| Pack                              | monopack 4 kg (3.2 + 0.8 kg)                                 |                 |
| Shelf life                        | ≈ 24 months from production in the original sealed packaging |                 |
| Thickness                         | from 2 to 10 mm  |                 |
| Temperature range for application | from +5 °C to +35 °C   | UNI 11493 - 8.3 |
| Pot life at +25 °C                | ≥ 90 min.  |                 |
| Open time                         | ≥ 90 min.  | EN 12004-2      |
| Adjustability                     | ≥ 70 min.  |                 |
| Vertical slip                     | ≤ 0.5 mm   | EN 12004-2      |
| Foot traffic                      | ≈ 24 h   |                 |
| Grouting                          | ≈ 12 hrs on walls / ≈ 24 hrs on floors                       |                 |
| Interval before normal use        | ≈ 3 days   |                 |
| Coverage                          | ≈ 1,5 kg/m <sup>2</sup> per mm of thickness                  |                 |

Rilevazione dati a +23 °C di temperatura, 50% U.R. e assenza di ventilazione. Possono variare in funzione delle specifiche condizioni di cantiere: temperatura, ventilazione, assorbimento del fondo e del materiale posato.

| <b>Performance</b>                       |   |                |
|--|---|----------------|
| <b>HIGH-TECH</b>                         |   |                |
| <b>Durability test:</b>                  |   |                |
| - shear adhesion after water immersion   | $\geq 5 \text{ N/mm}^2$   | EN 12004-2     |
| - shear adhesion after thermal shock     | $\geq 5 \text{ N/mm}^2$   | EN 12004-2     |
| Vertical slip                            | $\leq 0.2 \text{ mm}$   | EN 12004-2     |
| Elongation at break after 7 days         | $\approx 30\%$  |                |
| Service temperature of the cured product | from $-40 \text{ }^\circ\text{C}$ to $+70 \text{ }^\circ\text{C}$ |                |
| <b>Tensile adhesion strength:</b>        |   |                |
| - dry conditions                         | $3.5 \text{ N/mm}^2$  | IS 15477: 2019 |
| <b>Shear adhesion strength:</b>          |   |                |
| - dry condition                          | $6.2 \text{ N/mm}^2$  | IS 15477: 2019 |
| - heat ageing condition                  | $5.17 \text{ N/mm}^2$   | IS 15477: 2019 |
| Deformability                            | $\geq 50 \text{ mm}$  | IS 15477: 2019 |
| Slip resistance                          | $0.2 \text{ mm}$  | IS 15477: 2019 |
| Initial shear adhesion strength          | $4.15 \text{ N/mm}^2$   | EN 12004-2     |
| Open time tensile adhesion strength      | $3.00 \text{ N/mm}^2$   | EN 1346        |

Values taken at  $+23 \text{ }^\circ\text{C}$ , 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

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## Warning

- Product for professional use
  - abide by any standards and national regulations
  - use at temperatures between +10 °C and +30 °C
  - use packs which have been stored for 2/3 days before use at +25 °C
  - strictly keep to the mixing ratio of 3.2 : 0.8. For partial mixing, weigh the two parts precisely
  - workability times may vary considerably, depending on environmental conditions and the temperature of the tiles
- protect against direct rain for at least 12 hrs
  - do not fix on surfaces subject to moisture rising or which are not completely dry
  - if necessary, ask for the safety data sheet
  - for any other issues, contact Kerakoll Customer Care +91-22-2839 5593 / 1800 102 4957 - [info@kerakollindia.com](mailto:info@kerakollindia.com)

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