MINERAL ADHESIVE DEFORMABLE WITH VERY HIGH CONTENT OF NATURAL ADDITIVES FOR HIGH-PERFORMANCE BONDING, NO VERTICAL SLIP AND LONG-TIME OPENING OF PORCELAIN TILE, CERAMIC AND NATURAL STONES.

SUBSTRATES
Cement-based screeds, gypsum and anhydrite, concrete, plasterboard, fibro-cement slabs, cellular concrete, lime and cement-based plasters/renders, impact noise insulation sheets, to overlay existing floors, heating systems and waterproofing products.

MATERIALS
Porcelain tiles, laminated stoneware, low thickness slabs, ceramic tiles, large formats, marble – natural stone, recomposed materials, glass mosaics, thermal and acoustic insulation, cotto – klinker.

USES
Floors and walls, internal use – external use, overlaying, terraces and balconies, saunas and spa, domestic, commercial, industrial and street furniture.

The combination of substrates, materials and uses indicated may not always be possible to achieve. It is essential that you consult the individual product technical sheets to check their suitability. Anything that is not foreseen in this list must be requested directly from Technoriunite.

● PREPARATION OF THE SUBSTRATE
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 apply a primer like Primer A Eco by Kerakoll on very absorbent cement-based substrates.

● ADHESIVE PREPARATION
Mixing water
Grey ≈ 7 l / 1 bag
The amount of water to be added, indicated on the packaging, is an approximate guide. It is possible to obtain mixtures with consistency of variable thixotropy according to the application to be made.

● APPLICATION
To guarantee maximum 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.

WORKABILITY
Packe 25 kg
**Shelf life** ≈ 12 months in the original packaging
Protect from humidity

**Adhesive thickness** from 2 to 15 mm

**Coverage** ≈ 2.5 – 4 kg/m²

**Pot life at +23 °C:**
Grey ≈ 6 hrs

**Open time at +23 °C (BIII tile)**
Grey ≥ 45 min. EN 1346

**Foot traffic/grouting of joints at +23 °C (Bla tile)**
≈ 20 hrs

**Grouting in walls at +23 °C (Bla tile)**
≈ 15 hrs

**Ready for use at +23 °C (Bla tile)**
- light foot traffic ≈ 2 days
- heavy traffic ≈ 3 days

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**PRE-TREATMENT OF SPECIAL SUBSTRATES**

Gypsum-based plasters renders, anhydrite screeds and cellular concrete, for internal use: Primer A Eco by Kerakoll.

Please see the technical data sheet on how to use the Primers properly.

**MATERIALS AND SPECIAL SUBSTRATES**

**Marble and natural stone**

Materials that are 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 Technorunite 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**

Insulating and soundproofing panels applied using spot adhesion as recommended by the manufacturers.

Plasterboard and fibro-cement slabs must be firmly anchored to specific metal frames.

**DO NOT USE**

On timber, metal, plastic or resilient materials, deformable substrates or subject to vibrations. On screeds, plasters renders, concrete not yet cured and affected by important drying shrinkage. On organic-based waterproofing products (such as RM according to EN 14891). On smooth prefabricated concrete.
**PERFORMANCE**

Tensile adhesion (concrete/porcelain tiles) after 28 days ≥ 1 N/mmq

Tensile adhesion after 6 hrs  ≥ 0,5 N/mmq

Durability test:
- Adhesion after heat ageing  ≥ 1 N/mmq
- Adhesion after water immersion  ≥ 1 N/mmq
- Adhesion after freeze-thaw cycles  ≥ 1 N/mmq
- Vertical slip  ≤ 0,5 mm
- Transversal deformation  ≥ 2,5 mm

Working temperature from -30 °C to +80 °C

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

**GENERAL NOTICES**

- **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 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 toothed spreader 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 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 Technoriunite in any way. Therefore, it is advisable to perform a preliminary test to verify the suitability of the product for your purposes.