

MONNELI SILIKRETE

Two Components Latex Modified Cementitious Tile Adhesive

Product Description

A two component latex modified cementitious, waterproof, flexible tile adhesive. It is water resistant and it does not contain asbestos nor any & other harmful components.

Uses

SILIKRETE is used for high resistant fixing of all types of ceramic tiles including vitreous mosaics, porcelainized gres, klinker, single fired tiles, marbles, natural and artificial stones, etc. SILIKRETE is the ideal adhesive for fixing tiles in the following:

- Swimming pools
- Fountains
- Steam rooms
- Terraces
- Balconies
- Refrigerating rooms

Advantages

- Enhanced tensile adhesion strengths
- High water and chemical resistance
- Resistant to vibration, impact, temperature changes and aging
- Flexible
- Eco-friendly
- Formulated to suit Middle East conditions
- Low viscosity, easy to apply
- Perfect bonding to all materials normally used in building

Instructions for Use

Surface Preparation

All surfaces should be sound, clean & uncontaminated. This preparation should leave an exposed concrete surface free from dust, loose particles, deleterious matter, oil, grease, chemical films & other contaminants.

All loose particles of mortar, paint, etc. must be physically removed.

Concrete or blockwork: allowed to cure sufficiently so that all shrinkage movements take place before fixing tiles.

Gypsum supports: treat with PRIMER A16. Should not have a percentage of humidity more than 10%.

The surface of substrates must be moistened slightly with clean water to reduce the absorption of water from the mortar. Do not moistened the tiles.

Mixing

To prepare the product mix 5 Liters of resin (component B) with 25 kg of powder (component A), mix until a uniform, lump free consistency mix is achieved. For mixing process, a slow speed drill (200 – 300 rpm) fitted with a suitable paddle is recommended.

Application

Spread SILIKRETE on the substrate to a uniform thickness using a toothed spatula, the first pass with its smooth part and the second pass immediately after, using the toothed part of the spatula.

SILIKRETE may be applied for thickness from 1.5 mm-10 mm.

Place the tiles onto the adhesive bed. Apply sufficient pressure on the tile during fixing it with slight twisting movement in order to ensure good contact with the adhesive.

In case of large size tiles, it is necessary to spread the adhesive also to the backside of the tile and then place the tiles into the adhesive bed.

Apply enough material that can be tiled during the adhesive's open wet time. Spreading large areas may result in drying the adhesive before tiles can be fixed causing poor adhesion.

Finishing

Remove excess adhesive with damp cloth before the material has set. Joint grouting between tiles may be commenced 24 hours after tiles are laid on the floors.

Cleaning

Tools and equipment should be cleaned with water immediately after use. Hardened materials should be mechanically removed.

Recommendations

- Do not use on walls or floors subjected to intense movement (chipboard, asbestos cement board or wood agglomerates etc.)
- Do not use SILIKRETE for fixing green marble or similar colors
- Stiffened mortar must not be diluted with water, component B or with fresh mortar
- Do not use SILIKRETE on metal, wood or non-absorbing surfaces
- Do not apply SILIKRETE in rainy weather, high winds and sand storms
- Do not apply under direct sun
- Keep equipment cool and use cold water

Applicable Standards

- EN 12004 – C2T
- ISO 13007 – C2T
- ANSI A 118.4
- EN 1346
- EN 1348

Packaging

SILIKRETE is supplied in 30 Kg kit:

- Component A - 25 kg bag
- Component B – 5 liter can

Technical Data

Properties	Results
Component A Component B	Grey or white powder white liquid
VOC	< 65 g/L.
Mix density	1.5 kg/L
Open time	20 minutes
Workable time	> 30 minutes
Wall grouting	After 10 hours
Floor grouting	After 24 hours
Ready to use	After 14 days
Water resistance	Excellent
Slip resistance	Excellent
Shear strength	1.70 N/mm ²
Adhesion strength (EN 1348)	
Initial adhesion at 28 days	1.8 N/mm ²
Adhesion after heat	1.5 N/mm ²
Adhesion after water immersion	1.4 N/mm ²
Adhesion after Freeze-thaw cycle	1.2 N/mm ²

All values are subject to 5-10 % tolerance

Consumption

Approx. 4.0 to 4.5 Kg of SILIKRETE per m² using notched trowel on smooth surface. Consumption will vary according to type of tiles and support condition.

Storage

Store in dry covered place in the original closed bags and shelf life is 12 months if stored as recommended.

Health & Safety

SILIKRETE can be harmful to skin. During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary.

In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.

If ingested, obtain medical attention immediately. Do not induce vomiting.

The information in this Technical Data Sheet is based on Colmef Monnelli's experience. Colmef Monnelli does not accept any liability arising from the use of its products as it has no direct or continuous control over where or how its products are applied. All Colmef Monnelli's Data Sheets are updated on regular basis. It is the user's responsibility to obtain the latest version.

DUBAI
ABU DHABI
ITALY

P.O. Box 123808 Dubai UAE
P.O. Box 127326 Abu Dhabi, UAE
Z.I. Ponte d'Assi 06024 Gubbio (PG)

T. +971 4 8803488 F. +971 4 8803450
T. +971 2 5511949 F. +971 2 5511749
T. +39 75 9221297 F. +39 75 9221174

SILIKRETE
Technical Data Sheet
Edition: January 2020
Revision: 02

colmef@colmef.ae | www.colmef-me.com