

MONNELI SILIKOL

Latex Modified Cementitious Tile Adhesive

Product Description

A latex modified cementitious tile adhesive. It is supplied as grey or white coloured powder. It is water resistant and does not contain fiber, asbestos & other harmful components.

Uses

SILIKOL is used for fixing of ceramic tiles in interior and exterior applications. It is suitable for use for the following

- Kitchen
- Bathrooms
- Shower rooms
- Laboratories
- Hospitals
- Ceramic, vitrified tiles, granite floors

Advantages

- Enhanced bond and tensile strength
- Water resistant
- Eco-friendly
- Good open time and slip resistance
- Formulated to suit Middle East conditions

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 moisten the tiles.

Mixing

Add SILIKOL bag of 25 kg into a container having 5 to 5.25 liters of water (or ELASTOKOL as needed); mix until a uniform, lump free consistency is achieved. For mixing process, a slow speed drill (200 – 300 rpm) fitted with a suitable paddle is recommended.

Allow the obtained mix to stand for 5 minutes and then remix before application.

Application

Spread SILIKOL on the substrate to a uniform thickness of 3-4 mm using a toothed spatula, the first pass with its straight edge and the second pass immediately after, to the desired thickness using the toothed part.

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 tile 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 10 hours for walls.

Cleaning

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

Recommendations

- For improved adhesion strength and higher elasticity, it is recommended to replace water with ELASTOKOL
- The grey type presents higher mechanical resistances. It is therefore advisable to use to fix tiles on floor
- Stiffened mortar must neither be diluted with water nor with fresh mortar
- Do not use SILIKOL on metal, wood or non-absorbing surfaces
- Do not apply SILIKOL in rainy weather, high winds and sand storms
- Do not apply under direct sun
- Keep equipment cool and use cold water
- Porosity of tiles and substrates has significant effect on adhesive strength of tiles

Applicable Standard

- EN 12004-C1T
- EN 12004-C2T (when mixed with Elastokol)
- ISO 13007 – C1T
- ISO 13007-C2T (when mixed with Elastokol)
- ANSI A 118.4
- EN 1346
- EN 1348

Technical Data

Properties	Results
Appearance	Powder
Color	White/grey
Dry density	1.55 kg/L
Wet density	1.70 kg/L
Slip resistance	Excellent
Open time	Approx. 15 minutes
Workable time	45 minutes
Wall grouting	After 10 hours
Floor grouting	After 24 hours
Shear strength	1.4 N/mm ²
Adhesion strength (EN 1348)	
Initial adhesion at 28 days	1.1 N/mm ²
Adhesion after heat ageing	0.8 N/mm ²
Adhesion after water immersion	1.1 N/mm ²
Adhesion after freeze-thaw cycle	0.9 N/mm ²

All values are subject to 5-10 % tolerance

Consumption

Approximately 4.0 to 4.5 kg SILIKOL per m² using notched trowel on smooth surface. Consumption will vary according to type of tiles and support condition.

Packaging

SILIKOL is packed in 25kg bags

Storage

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

Health & Safety

SILIKOL can be harmful to skin as it contains cement powders which may release alkalis when mixed with water.

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.

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