

Description:

High-performance cementitious flexible adhesive with extended open time and reduced slip for ceramic tiles and stones.

Fields of Application:

- Interior and exterior floor and wall bonding of all types and sizes of ceramic tiles, natural stone, marble, granite, porcelain ceramic, clinker, cotto on cementitious renders, cementitious screeds, and concrete.
- Bonding of tiles on existing ceramic tile, granite.
- Bonding of tiles on painted walls and gypsum.
- Bonding of ceramic tiles in swimming pools, basins, and any other wet places.
- Bonding of tiles on terraces and balconies.
- Bonding of tiles on places where sudden temperature changes occur, like cold storage depots and overfloor heat installations.
- Bonding of tiles on places subject to heavy traffic, like shopping malls, hospitals, schools.

Properties:

- Perfect adherence.
- Highly deformable, resistant to temperature changes.
- Can be applied on vertical surfaces even for bonding heavy tiles without sagging.
- Extended open time.
- Easily trowellable.

Storage:

Store in a dry medium. Do not stack more than 10 bags on top of each other.

Packaging:

25 kg multi-ply paper bags.

Application:

- Substrates must be sound, free from oil, grease, and sufficiently dry. Cementitious substrates must be cured.
- Slowly pour 25 kg of POLYFLEX 54 into 6-7.5 liters of clean water and mix to obtain a homogeneous paste free from lumps. It is recommended to use a low-speed mixer for mixing. Do not add any additives that are not mentioned in the application instructions.
- Allow the mixture to stand for 5-10 minutes to mature. After 1-2 minutes of remixing, the paste is ready for application.
- Spread the mortar onto the substrate using a notched trowel with a notch size appropriate to the tile dimension (See Notch Size Recommendation Table). To achieve good adhesion, first apply a thin coat of POLYFLEX 54 with the flat side of the trowel, then notch it with the toothed side of the trowel.

- Wipe the backside of tiles with water if dusty.
- For applications of large tiles (greater than 40x40 cm), on existing tiles, or those subject to frost or heavy traffic, POLYFLEX 54 should also be applied on the back of the tiles (combined method).
- The open time is 30 minutes. Install the tiles within this period with pressure. Unfavorable climatic conditions such as high temperature, low humidity, wind, etc., can reduce this time to just a few minutes. If the open time is exceeded, scratch and discard the mortar.
- Dispose of mortars that have exceeded their pot life. Clean tools and hands with water, and surfaces with a damp cloth.
- Tiles installed with POLYFLEX 54 must not be exposed to water for at least 24 hours.

Warnings:

- Since it contains cement, it can be irritating to the eyes, respiratory system, and skin. For further information, refer to the safety data sheet.
- The indicated consumption is general information and may change depending on the application conditions and surface properties.

Technical Properties		(at 23°C and 50% RH)
General Data		For POLYFLEX 54
Appearance		White Powder
Shelf Life		12 months when stored in original sealed packing in dry
Application Data		
Application	Temperature	(+5°C) - (+35°C)
Range		6,5-7,5 lt water / 25 kg powder / 3,25 - 3,75 / 12,5 kg
mixing Ratio		Approximately 5 hrs
Port Life		≤0,5 mm
Slip (EN 1308)		After 25 minutes ≥0,5 N/mm ²
Open Time (EN 1346)		10 hours on wall 24 hours after on floor
Grouting		3,5 kg / m ²
Consumption		
Performance Data		
Tensile Adhesive Strength (EN 1348)		
Initial		≥ 1 N/mm ²
After Heat Exposure		≥ 1 N/mm ²
After Immersion In Water		≥ 1 N/mm ²
After Freeze/Thaw Cycles		≥ 1 N/mm ²
Deformability (EN 12002)		≥ 2,5 mm-S1 Deformable
Service Temperature Range (After Final Cure)		(-40°C)-(+80°C)
Dangerous Substances (EN 12004)		Complies
Reaction To Fire		A1