

MONOTILE C100



Tile adhesive for floor & wall - ceramic tiles

DESCRIPTION

MONOTILE C100 is a polymer-modified, grey cement based thin-set tile adhesive for fixing high porosity (greater than 3%) tiles like ceramic/ clay of regular size (size not more than 300 mm X 300 mm). It is suitable for both vertical and horizontal surfaces, over the cementitious substrate for indoor applications in dry areas.

It also recommended for installation of vitrified tiles on the floor.

FEATURES AND ADVANTAGES

- . Easy to use - add water as per the recommended W/P ratio, on site and ready to use
- . Can be used in internal dry areas, for floor as well as wall applications

AREA OF APPLICATION

Flooring and walls for internal applications in dry areas.

AREA OF USE

Materials to be fixed

All types of ceramic tiles and bricks are vitrified as recommended to fix on the floor.

Surface/substrate

Cement-based screeds, plasters, mortars, concrete surfaces and bricks.

METHOD OF APPLICATION

Floor Tiling

- . The substrate to be tiled must be a hard PCC or IPS substrate without undulations & levelling
- . The surface to be tiled should be sound and thoroughly cleaned. It should be free from wax, grease, polish, etc.
- . Add 3.5 - 4 parts of powder to 1 part of water
- . Mix with a trowel or slow-speed drills (50 - 100 rpm) until a lump-free homogeneous paste is obtained
- . Always mix the required quantity, which can be consumed within 60 minutes of pot life

- . Leave mixture for 5 minutes before applying
- . Spread the adhesive to a thickness of approx. 3 - 6 mm and comb with a notched trowel. Strictly apply the adhesive paste which can be tiled within 10 to 15 minutes
- . Intermittently touch the adhesive paste on the substrate with a finger. If the adhesive sticks to the finger then continue tiling, if not, scrape off the adhesive and apply a new coat
- . Press the tiles firmly into position with a slight twisting action, checking periodically that good contact is maintained
- . with the back of each tile and beat in using rubber mallet to imbed tile and adjust level
- . Leave no voids behind tiles
- . For larger tiles or irregular surfaces, adhesive can additionally be buttered on the backs of the tiles to ensure full adhesive contact
- . Use suitable support along with adhesive for fixing tiles on vertical surfaces
- . Leave adequate joints between individual wall and floor tiles using spacers. The joint width shall be as per the recommendation of architect/ engineer
- . Clean off extra adhesive from the tile face and between joints
- . Clean tools and tile work with water while adhesive is fresh

STANDARD COMPLIANCE

IS : 15477:2019 TYPE 1, C1T (Cementitious Standard Slip - Resistant) as per EN 12004:2017.

TECHNICAL PROPERTIES

PARAMETERS

Tentative mixing ratio (Powder: Water)
Mixed density
Table flow
Open time (IS 15477 : 2019)
Adjustability (IS 15477 : 2019)

RESULTS

3.5 : 1 by volume; 1 : 0.22 by weight

1.7 - 1.9 kg/ ltr

180 mm

Approx. 20 minutes

Approx. 20 minutes

Pot life Approx. 60 minutes

Tensile adhesion strength as per Is15477 0.5 N/ mm

Application temperature (substrates & materials) 5°C to 35°C

Adhesive thickness 3 - 12 mm

Setting/ trafficable time 24 hours

PERFORMANCE PROPERTIES AS PER IS: 15477 : 2004 (TYPE 1)

PARAMETERS

Shear adhesion in dry condition (24 hours)

Shear adhesion in dry condition (14 days)

Shear adhesion as per heat aging

Shear adhesion in wet condition

Tensile adhesion in dry condition

Tensile Adhesion in wet condition

RESULTS

4 - 6 KN

10 – 12 KN

7 - 9 KN

10 - 12 KN

1000 – 1400 N

700 – 1000 N

PERFORMANCE PROPERTIES AS PER IS 15477: 2019 (TYPE 1 'T')

PARAMETERS

Tensile adhesion in dry condition

Shear adhesion in dry condition

Slip resistance (T)

RESULTS

2 0.5 – 1.0 N/ mm

2 1.0 N/ mm

0.1 – 0.5 mm

PACKAGING • 20 kg bag COVERAGE

Approx. 5 - 6 m²/ 20 kg Bag at 3 mm thickness (using 6 mm x 6 mm notch)

*Coverage will vary depending on trowel notch size, type, tile size and substrate smoothness and evenness.

STORAGE

12 months for sealed pack when stored under cover, out of direct sunlight, damp-proof condition and protect from extremes of temperature.

HEALTH & SAFETY

. Keep away from children, Wear suitable protective clothing, gloves and eyes/face protection

. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice Limited to professional use only. For more details please refer the relevant material safety data sheet, available on request

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Starke Polymer Ltd
Plot 158, kampala uganda
Construction Chemicals

Tel + 256 709 704 421
Tel + 256 792 171 023

Email: info@starkepolymers.com
www. Starke polymers.com

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