

City Fix



We Create Better Future

Polymer Modified Waterproofing Cementitious Tile Adhesive

Description:

City Fix is a high performance polymer modified thin set mortar composed of hydraulic binders, selected aggregates and performance additives. It is supplied as a dry powder in pre-weighed bags. Mixed with water, **City Fix** forms an easily trowellable mortar with good bonding strength, low slump and good waterproofing characteristics.

Typical Uses:

Typical applications of grand fix include

- Indoor and outdoor fixing of ceramic tiles, porcelain, marble and stone cladding both on wall and floors. Over concrete, mortar, masonry, Portland cement plaster.
- General areas like offices, corridors, restaurants and shops with high foot traffic and extensive cleaning.
- Wet areas such as walls and floors of showers, bathroom and kitchens.
- Permanent fixing of ceramic tiles and natural stone on irregular concrete and cement based substrates in thickness from 3mm to 10mm depending on the tiles and quality of substrates.

Advantages:

- Factory controlled pre-blend ensures consistent quality.
- Ready to use, just mix with water.
- Engineered open time and high workability.
- Sag and slip resistance immediately holds wall tiles in place.

Technical properties

Applicable standards :	BS EN 12004 - CIT ISO 13007 - CIT ANSI 118.4 EN1346 , EN 1348
Appearance	White Powder
Consistency of mix	Paste Mortar
Application Temperature	+5 to +35 °C
Open time EN1346	20 minutes
Adjustability time	>30 Minutes
Resistance of slip	Excellent
Tensile adhesion EN1348	
initial adhesion strength (28 days)	1.2 N/mm ²

Adhesion after heat aeging	0.8 N/mm ²
Adhesion after water immersion	0.9 N/mm ²
Adhesion after freeze thaw cycle	0.9 N/mm ²
Shear strength ANS, 118.4	1.5 N/mm ²
Water Resistance	Excellent
Grouting time	After 24 hours
VOC (ASTM D 2369)	0 gm/litter
Set to light foot traffic	24 hours
Ready for use	14 days

Note:- Properties are based on laboratory-controlled tests.

Instruction for use:

Surface preparation:

The substrate must be dry, load bearing, adequately flat, free from penetrating cracks and loose material, laitance, curing compounds, dust, oil, grease and old paint. It must have a largely closed surface texture. Renders, cement screeds, concrete substrates should be allowed to cure sufficiently for minimum 21 days to accommodate all shrinkage and structural strain movements. Dampen the surface with clean water before applying the product to reduce absorption of water from the mixed mortar by the substrate.

Gypsum substrates should be abraded cleaned and treated with BUILDA PRIME PVA.

Inspect the porosity of tiles. For highly porous tiles it is necessary to moisten the backside of the tiles to eliminate the risk of water absorption from the mix.

Mixing:

For the preparation of mortar adhesive, pour into a clean container, 4.0-4.5 liters clean water for each 20 kg bag of **City Fix**. Add powder slowly to the water and mix with a low speed electric drill fitted with a suitable paddle for 3-4 minutes until a uniform lump free consistency mix is achieved. Allow the mixed material to stand for 5 minutes and remix before application.

Application:

Spread **City Fix** over the substrate to a uniform thickness using a notched trowel, the first pass with its straight edge and the second pass, immediately after, to the desired thickness using the toothed side of trowel. Choose a trowel that will give a coverage to the back of tiles of at least 65-70

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% for walls and 100 % for heavy traffic or external application. Spread the mortar adhesive to an area that can be tiled within 10-15 minutes. There must be constant check to see whether the adhesive has formed a surface skin. If surface skin has formed, the adhesive should be retrowelled. Adjustment of tiles, if necessary should be carried out within 30 minutes. The back of tiles, if dusty should be wiped with clean water. Fix the tiles with firm pressure and slight twisting movement to ensure good contact with the adhesive. When applying tiles of sizes larger than 30cm x 30cm it is necessary to spread the adhesive also to the backside of the tile and then fix the tiles into the adhesive bed.

Mortar adhesive must be not rise higher than half way the thickness of tiles in the joints. Remove excess adhesive with a damp cloth before it dries.

In case of applications on external walls or floors exposed to high movements, vibrations or temperature variations or areas where high elasticity for the adhesive mortar is required **City Fix** should be mixed with BUILDA GRIP AC as a total or partial substitute to the mixing water in order to form a deformable adhesive suitable to absorb the differential movements between the support and the tile.

Grouting and Sealing:

Joint grouting can be performed after 10 hours of tiling for walls and 24 hours for floors.

Cleaning:

Tools can be cleaned with water while surfaces should be cleaned with damp cloth after few hours of application.

Consumption:

Approx. 4.5 kg **City Fix** per sq. meter, using 6mm notch trowel over plain surface. Consumption will vary accorty to type of tiles and support conditions.

Packaging:

City Fix is available in 20 kg paper bags.

Storage and Shelf Life:

City Fix has a shelf life of 12 month from date of manufacturing when kept in dry storage under shed in original unopened bags.

Important Note:

The information contained herein is to the best of our knowledge true and accurate and is given in good faith, based on practical experience and applied testing Site or application – specific conditions may vary from those described here and thus the correct and successful use of the product is beyond our sphere of influence. If in doubt, the user should therefore first carry out sufficient tests to ensure the product is suitable. Legal liability cannot be accepted, either solely based on the content of this information sheet or any verbal advice given.

All **IBCF** Datasheets are updated on regular basis. It is the user's responsibility to obtain the latest version.

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