

Flexigrip Tile Adhesive Datasheet

November 2017

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A top quality tile adhesive for fixing ceramic tiles and mosaics. It is supplied in paste form and is suitable for interior use only. **Flexigrip Tile Adhesive** is a thin-bed modified cement based paste adhesive for fixing lightweight tiles to surfaces, such as partition walling coated with BaseCoat, renders, stone, bricks, blocks, previously painted walls, shuttered concrete free of release agents etc.

Technical Data

Type	Modified Portland cement based paste adhesive
Colour	Grey and white
Pot life	45 minutes
Working time after mixing	20 to 30 minutes
Abrasive resistance	Not applicable
Mixing water temperature	15°C to 25°C
Application temperature (ambient)	6°C to 25°C
Substrate temperature	6°C to 25°C
Min application thickness	3mm
Max application thickness	4mm
Density	1.5kg/lit
Protection during application	Wind and sun barriers (no contact with material)

Applications

Recommended for both interior walls and floors.

Site

Work Storage

Can be stored in a dry shed off the floor on wooden slats for 4 months, from date of invoice, in temperatures not less than 5°C.

Suitable Surfaces

Concrete, cement plaster, stone, bricks and blocks. Where adhesion is required to glazed tiles or firm oil paint, the surface should be primed with FlexKey prior to application of **Flexigrip Tile Adhesive**. Not suitable for use in water-containing structures. Please contact our Technical Department.

Masking

For best results all windows, doors and adjacent surfaces should be masked using masking tape and brown paper. All masking material must be removed at the end of the day's work.

Surface Preparation

New wood floated plaster/render

All new renders/plaster must be allowed to cure for at least 14 days. The render must be firmly attached to the substrate, must be integrally sound (no crumbling, cracking, etc.) and must be of a quality and consistency suitable for tiling. The surface must be clean and dry and free from dust, loose particles and surface contaminants.

Steel floated (smooth/dense) surfaces must be primed with a slurry consisting of 2 parts FlexKey 3 parts PrimerCote, which must be left to dry before **Flexigrip Tile Adhesive** is applied.

Cemcrete provides a comprehensive technical service based on over 3 decades of experience in the field of surface applications and cement technology. Cemcrete believes, to the best of its knowledge, that the information contained herein is true and accurate at the date of issuance and is subject to change without prior notice. For further clarification of these instructions, contact Cemcrete.

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Previously painted walls

Ensure there is no loose defective paint and that any tightly bonded paint is feathered even with the surface by sanding. All traces of grease, grime, soap residues and other contaminants must be removed. The entire painted surface should be sanded with a 60 grit sandpaper to provide a mechanical key. Prime the plaster with FlexKey. Prime with a slurry consisting of 2 parts FlexKey 3 parts PrimerCote when the surface becomes tacky, and then this must be left to dry before **Flexigrip Tile Adhesive** is applied.

Shuttered concrete

Shuttered concrete should be shot blasted so as to provide a good mechanical key and remove all traces of release agents before attempting to apply **Flexigrip Tile Adhesive**. A trial area should be done to test for proper adhesion before commencing with the project. Having achieved this follow the same procedure as for plastered surfaces.

Existing tiles

Existing wall tiles must be in good condition and firmly attached to the substrate, and must be clean, free of any contaminants such as oils soap suds etc. that may impair bond and dry. A good mechanical key should be provided for the glazing of existing tiles (This can be achieved by lightly grinding the surface of the tiles). Prime the existing tiles with a slurry consisting of 2 parts FlexKey 3 parts PrimerCote, which must be left to dry before **Flexigrip Tile Adhesive** is applied.

Application

Ensure that the tiles are dry and the backs are free of dust and contaminants. The adhesive should be thoroughly agitated before use to ensure uniform dispersion of product. **Flexigrip Tile Adhesive** should be applied onto the substrate using a 6mm notched wall trowel. At no time spread more adhesive than can be tiled onto in 20-30 minutes. Depending on temperatures and relative humidity. This prevents the adhesive from drying before the tiles are applied. Bed the tiles (do not soak) firmly into the wet adhesive with a twisting action to ensure full contact between the background, tiles and adhesive. Tiles should be well tapped home with a rubber mallet or the wooden handle of a trowel. It is sound practice to remove the occasional tile to ensure that good contact has been achieved.

Clean off any surplus adhesive remaining on the face of tiles and between the joints with a damp sponge before the adhesive dries. Never butt joint tiles. Joints are required to allow the individual tiles to move with respect to each other and thus avoid a compressive stress build-up. They are also required as vents for the tile adhesive to cure. The joints between ceramic wall tiles must be a minimum of 2mm wide. Do not tile over structural, expansion or cold joints in the background. The joints must be extended through the various layers to the surface.

Grouting

Allow at least 24 hours after completing the tiling before grouting, depending on weather conditions. Use a suitable grout in accordance to the manufacturer's instructions. Grout should be mixed with FlexKey as a total water replacement when tiling onto flexible substrates or in 'wet' applications (i.e. splashbacks, showers etc).

Movement joints

Tile panel movement joints should be located in both directions at maximum 3 metre centres in areas where movement is expected (i.e. partition walling), and maximum 4 metre centres for other interior wall/floor applications. Movement joints should also be located in all horizontal and vertical corners, against obstructions fixed to the structural background and over all discontinuities in building materials, e.g. at interfaces of concrete and brickwork. In addition, movement joints should be located around any fixtures protruding through the tiled surface.

The joints should be at least 5mm wide and extend through the adhesive and tile layers. All construction/cold joints and structural joints in the background must be extended through the adhesive and tile layers to the surface in the form of tile panel movement joints. With regards to structural joints, the full width of the structural joints must be respected and extended through the adhesive and tile layers to the surface. Where practical, the bulk of the depth of the movement joint can be filled with a proprietary polyurethane joint sealant in accordance with the manufacturer's instructions.

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Coverage

Varies considerably depending upon method of application. On true surfaces where a 6mm x 6mm notched trowel has been used, approximately 2m² per kg.

Packaging

Available in 1.5kg; 7.5kg and 15kg plastic drums.

Manufacturer's Warranty

Cemcrete warrants that the products manufactured by it shall be free from material defects and will be consistent with its normal high quality. Should any of the products be proven defective, the liability to Cemcrete shall be limited to replacement of the product ex-factory. Cemcrete makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties expressed or implied. The user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith.

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