

CHEMTILE ADHESIVE



CEMENT BASED, POLYMER MODIFIED GENERAL PURPOSE TILE ADHESIVE

DESCRIPTION:

Chemtile Adhesive is a grey & white cementitious powder containing performance enhancing polymers additives. This easy-to use, cement-based adhesive is perfect for fixing ceramic tiles, quarry tiles and similar materials. It provides strong adhesion to cement/sand screeds, to in-situ/pre-cast concrete, and brickwork. For external wall application use **CT 100**

RECOMMENDED USES

- Tile on tile for cement tile only
- New tiling in internal areas & floors in external
- Ceramics and decorative cladding
- Showers & wet processing areas
- Laboratories, hospitals, canteens, etc
- Tiling corridors, pavements and roofs

FEATURES AND BENEFITS

Water resistant grade – suitable for wet areas

High bond strength – suitable for larger tiles

User Friendly – just add water on site

Shrinkage- Non shrink Mortar

PROPERTIES

Free flowing grey powder

Fresh wet density: 1.75 kg/liter

Water/powder ratio by: 0.18 - 0.210 weight

Open time: >0.5N/mm² (upto10min)

water Immersion: 24 Hours at 25°C

Foot traffic /Grout-able

Chloride content : < 0.2%

All above properties could be achieved at
water :: powder ratio 0.210

APPLICATION:

Surface preparation

The substrate must be solid, clean and loadbearing. Oil stains, bond-inhibiting surfaces and contaminations must be thoroughly removed. Irregularities on walls are to be levelled with **Chenbond SBR** mortar or polymer modified mortar. Very absorbent cement based substrate and foam concrete are to be primed with **Chenbond SBR**. Allow primer to dry. Freshly installed cement screeds must not have residual moisture content above 5 %.

Concrete, screeds, renders, and block work should be cured sufficiently to allow for most of the shrinkage movements.

Mixing

Place gauging water in a clean mixing vessel. Add powder and mix with a suitable mechanical stirrer until a plastic, lumps free consistency is achieved.

While part mixing, add **Chemtile Adhesive** to clean water with a ratio of 3.6:1 by dry volume.

Placing

Apply thin (3 to 6 mm thick) bond coat to the substrate with the straight edge of the trowel. Then comb mortar on to the fresh bond coat with the notched edge of the trowel working in the direction, if possible. Only apply as much mortar as can be covered with tiles within the open time. Check the open time by touching the adhesive bed with your fingertip. Apply mixed material in perpendicular direction with respect to groves on the back of tile.

Position tiles in the adhesive bed and align with a slightly pushing motion, ensuring the tile back achieves full contact with the adhesive.

If required, **Chemtile Adhesive** can additionally be buttered on the backs of the tiles to ensure full adhesive contact.

Ceramic tiles should never be butt jointed. Leave a minimum of 2mm around tiles.

Solid bed fixing is recommended for all horizontal applications and vertical heavy duty applications including artificial stone cladding.

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Adjustments to tiles should be made during the adhesive open time. Remove excess from tile face and rake out joint for subsequent grouting before the adhesive sets.

Leave for a minimum of 24 hrs before grouting

Watch points

- Movement joints should be provided in accordance with normal practice. Refer to published local standards or BS 5385.
- Do not apply **Chemtile Adhesive** greater than 12mm thickness on horizontal surfaces and 8mm on vertical surfaces.
- Do not apply at temperatures below +5°C and above 40°C
- In hot weather conditions, pre-condition **Chemtile Adhesive** at 21°C for at least 24 hours and use chilled mixing water to extend open wet time.
- The open time reduces with absorbent substrates
- Stiffened mortar must neither be diluted with water nor with fresh mortar

ESTIMATING DATA



Each bag of 20 Kg is sufficient for 4~4.25 m² of the minimum 3mm application on a flat & smooth surface 20kg bag mixed with 4.25 L of water yields 13.6 liters of mixed adhesive

PACKAGING

Chemtile Adhesive is available in 20 kg bags

SHELF LIFE

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 6 months when stored as above.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Material Safety Data Sheet (MSDS) from our office or our website.



The technical information and application advice given in this publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be **RESPONSIBILITY** made as to a product's completeness either expressed or implied is given other than those required by law. The user is responsible for its ability for a particular use or application and no warranty as to its accuracy, reliability or checking the suitability of products for their intended use.

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