

# Cemfix W

Highly polymer modified cementitious tile and stone adhesive for wet and submerged areas



## Description

Cemfix W is a single component cementitious tile adhesive consists of blend of cement, well graded aggregate, high content of polymers and special additives which when mixed with water provides a high performance tile adhesive with excellent water resistance characteristics.

Cemfix W is specially designed for bonding all types of ceramic tiles, porcelain and natural stone in wet areas or submerged conditions, such as swimming pools, potable water tanks and fountains.

## Applications

- ▲ For permanent fixing of all types of ceramic, porcelain and other non-porous tiles on submerged condition such as swimming pools, fountains and potable water tanks.
- ▲ Highly recommended for bathrooms, kitchens and other wet areas.
- ▲ Excellent for exterior applications.
- ▲ Suitable with underfloor heating systems.
- ▲ Suitable for fixing large format tiles.
- ▲ On concrete and cement based mortar, screed and plaster.
- ▲ On drywall such as gypsum boards and plaster boards.

## Advantages

- ▲ Extended open/wet time.
- ▲ High water resistance, will not be affected in submerged conditions.
- ▲ Very high bond strength.
- ▲ High slip resistance.
- ▲ Non sag.
- ▲ Ready mixed, just requires the addition of water.
- ▲ Suitable for pools and water retaining structures.

## Limitations

Do not use for:

- ▲ Thick bed applications.
- ▲ Tile over tile applications.
- ▲ Cases that require a rapid utilization for the surfaces.
- ▲ On metal, rubber, PVC or wood substrates.

## Technical Properties @ W/P = 0.26:

Colour:	White or grey
Fresh wet density:	1.65 ± 0.1 g/ cm <sup>3</sup>
Pot life:	2 hr
<b>Shear adhesion strength in compliance with IS 15477</b>	
Dry condition at 14 days	≥ 10 kN
Heat aging condition	≥ 5 kN
Wet condition	≥ 5 kN
Open time: IS 15477, annex C	30 min
Adjustability time: IS 15477, annex D	120 min
VOC: ASTM D2369	≤ 5 g/ltr (Complies with LEED)

## Standards

Cemfix W complies with:

- ▲ IS 15477, as Type II Adhesive.
- ▲ ISO 13007-1 and BS EN 12004 as an improved cementitious tile adhesive with slip resistance and extended open time characteristics (C2TE).
- ▲ ANSI A118.4 for shear strength requirements.

## Method of Use

### Substrate Preparation

All surfaces must be clean and free from oil, grease or loose materials. Substrate should be dimensionally stable. Allow time for shrinkage and structural strain movements.

### Priming

Cemfix W can be applied directly on concrete, cement plaster, screed and cement or lime mortar. Prime gypsum boards with Keybond 2000 diluted with water at a ratio of 1:4 by volume.



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## Joints

Tiles should not be placed over expansion or contraction joints. Stop tiles on joint edges and fill joints with flexible sealant.

## Marble and Granite Fixing

For marble and granite tiles where dimensions are relatively large and individual weights of tiles cannot be supported by the adhesive; the process of installation shall follow a bottom-up approach and fixed tiles should be undisturbed for a period of at least four hours.

If more than two rows of tiles are to be fixed simultaneously, the tiles are to be mechanically supported to allow the adhesive to set and achieve maximum bond in one of two ways:

- ▲ Use of temporary anchor nails in between tile gaps.
- ▲ Use of inclined support studs.

For further information please contact your local DCP Representation Office.

## Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.

6.25 - 6.75 litres (for each 25 kg bags) of clean water should be added to a clean container. The powder is then added slowly to the water while mixing continuously with low speed mixer/drill (400 - 600 rpm). Mixing should be continued for 3 minutes until a uniform consistency is obtained.

## Application

- ▲ Spread to a uniform thickness of 2 - 5 mm.
- ▲ Comb horizontally.
- ▲ Place tiles firmly over the applied area.
- ▲ Do not apply large areas of adhesive that cannot be covered within the open wet time of the adhesive.

## Cleaning

All tools should be cleaned immediately after use with fresh clean water. Hardened materials should be cleaned mechanically.

## Packaging

Cemfix W is available in 5 and 25 kg bags.

## Yield

Approximately 6.3 m<sup>2</sup>/25 kg bag @ 3 mm thickness.

## Storage

Cemfix W has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## Cautions

### Health and Safety

As Cemfix W contains Portland cement, Cemfix W may cause irritation to skin or eyes.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

For further information refer to the Material Safety Data Sheet.

### Fire

Cemfix W is nonflammable.

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- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

### Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

