

# **CHEMI PLUSH**

# High Polymer Modified, Cementitious, Tile/stone Adhesive

#### **DESCRIPTION**

High polymer modified, grey cement-based tile adhesive suitable for fixing medium format tile/stone in interior walls/floor and exterior floor situations upto 6 mm bed thickness (can be extended up to 12 mm in area of limited extent). The set adhesive is water-resistant and is suitable for use in showers and totally immersed situations such as swimming pools. chemiplush is used for fixing mosaics, vitrified and fully vitrified tiles, terrazzo and natural stone and also for renovation (tile-over-tile) for quick & easy installation works.

### **Note**

Not recommended for direct use onto gypsum plaster (wall finishes), paint or metal.

### **STANDARDS**

Confirms to **IS 15477: 2019 Type 2T** "Adhesives for use with Ceramic, Mosaic and Stone Tiles"

Confirms to **EN 12004: 2017** and is a normal cementitious adhesive (C1) with slip resistance (T) of class **C1T** 

### **FEATURES**

- Excellent adhesion.
- Excellent workability.
- Highbond strength.
- Suitable for most commom substrates and tiles.
- Easy mixing, smooth application & better workability.
- Ideal for under floor heating appl.
- Self-curing.

## SUITABLE BACKGROUND / BASE

New substrates:

- Concrete walls & floor
- Cement sand screed
- Cement sand render

Renovation works on existing:

- Unglazed tiles
- Hard natural stones\*
- Glazed tiles\* (vitrified and ceramic tiles)
- Mosaic tiles\* and In-situ mosaic flooring\*

\*The surface should be abraded (roughened) and cleane dbefore installation.

### PHYSICAL PROPERTIES @ 27 ± 2°C

PotLife 2 hours

Setting Time 24 hours

Temperature -5°C to +45°C

Resistance

Bulk Density  $1450 \pm 50 \text{ KG/m}^3$ 

## Properties as per IS 15477: 2019@27 ±2°C

Property with Test Method	Min. Requirements	Typical Result
Tensile Adhesion Strength (as per Annex A) Dry Condition	0.50 N/mm²	>1.68 N/mm <sup>2</sup> >1.19 N/mm <sup>2</sup>
Shear Adhesion Strength (as per Annex B) Dry Condition	1.00 N/mm²	>1.32 N/mm²
Open time (as per Annex C)	As per Mftr	35 mins
Adjustment time (as per Annex D)	As per Mftr	40 mins
Slip (as per Annex E)	<0.50 mm	0.18 mm²

# COVERAGE ESTIMATES Coverage

Approx. 1.30 - 1.40 kg/m<sup>2</sup> /mm

Square notch Trowel size	Consumption/m² (@ 45 angle of trowel)
6mm X 6mm	2.75 - 2.90 Kgs
8mm X 8mm	3.65 - 3.90 Kgs
12mm X 12mm	5.45 - 5.85 Kgs

**Note:** Coverage will depend on the nature and flatness of the surface and the method of application. For good coverage, it is vital that all surfaces are smooth, plumb, level and free from defects and undulations.

### **Pack size**

20kg & 50kg (Available in 50 kgs bag asproject for supply)

# APPLICATION INSTRUCTIONS Substrate Preparation

Before starting any work ensure that the base is:

- Sufficiently flat to permit the specified flatness of finished tiling, bearing in mind the permissible thickness of the adhesive.
- Suitable for tiling in the service conditions to which it will be exposed.
- Surfaces to be tiled must be dry, clean and free from loose material and contamination.



# **CHEMI PLUSH**

# High Polymer Modified, Cementitious, Tile/stone Adhesive

#### SITE WORK INSTRUCTIONS

### **New Concrete Bases:**

Before commencing tiling, ensure that bases have been allowed to air dry for at least 4 weeks.

New Cement Sand rendering: Before commencing tiling, allow plastered surface to air dry for at least 2 weeks (3 weeks for swimming pools).

Ceramic/Vitrified & Fully Vitrified Tile/Terrazzo/Hard Natural Stone Bases:

## **Mixing**

Add Chemi Plush to clean water. Mix thoroughly until a lump-free mortar is obtained. The adhesive is immediately ready-for-use and has a pot life of 2 hours. No further water should be added.

Where mixing by weight is not possible, volume mixing can be carried out at site in the ratio of 1:3.5 (water: powder)

Water Content

20 kg Bag : 3.80 to 4.10 ltrs 50 kg Bag : 9.50 to 10.25 ltrs

### **APPLICATION**

- 1. Spread not more than the area which can be tiled within the open time of the adhesive.
- The mixed adhesive is applied to the prepared surface with a trowel and then combed through with a suitably sized square-toothed notched trowel
- 3. The tiles should be fixed within the open time of the adhesive and pressed into place with a twisting and sliding action ensuring solid bed fixing is achieved. The open time is dependent on site conditions and will be extended in lower temperatures and shortened at higher temperatures.
- Check periodically that good contact is maintained with the back of each tile.
- Touch the adhesive ribs periodically and if a skin has formed, remove the adhesive and apply a new layer.
- Leave adequate joints between individual wall and floor tiles unless self-spacing tiles are used.
- Clean off surplus adhesive from the tile face and between joints

### Note

- Do not use in damp conditions and temperature less than 5°C
- Seal the sides & bottom of porous stones with UNDERTILE & STONE PRIMER to avoid migration of moisture. (data removed)

- Use suitable clamps along with adhesive at the time of installation of tiles/stones above 3m height as recommended by IS 15477: 2019
- For large span tiling works, leave movement joints at every 3m interval and fill with a flexible sealant as per BS 5385.
- Prevent foot traffic till the adhesive has completely set.

### **CLEANING**

Tools and containers may be cleaned using clean water when the adhesive is still fresh. The hardened adhesive can be removed from tools mechanically.

### STORAGE AND SHELF LIFE

CHEMI PLUS has a shelf life of 12 months when stored in normal dry conditions.

#### **PRECAUTIONS**

Keep out of reach of 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.

For more details please refer the relevant Material Safety Data Sheet.

### **CONDITIONS OF SALE**

Sold subject to the Company's conditions of sale which are available on request.

## NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.