

CHEMI ULTRA WHITE

Premium Quality, High Polymer Modified Deformable Adhesive

DESCRIPTION

White cement based, high polymer modified and high strength adhesive specially designed for fixing large format vitrified tiles, glass mosaic, porcelain, terrazzo, non-staining natural & engineered* tile/stone on cementitious and a varietyof dry-wall board substrates. The additional property of water & frost resistance enables the product to be used in interior/exterior situations and in wet areas like swimming pools, saunas, hydrotherapy pools and shower enclosures. The adhesive can be used up to 6mm bed thickness (can be extended up to 12 mm in area of limited extent)

*Use CHEMIBUILD UNDERTILE & STONE PRIMER before installation of engineered/artificial tiles/stones

STANDARDS

Confirms to **IS 15477: 2019 Type 4TS1**"Specification for Adhesives for use with Ceramic, Mosaic and Stone Tiles".

Confirms to **EN 12004: 2017** and is a improved cementitious adhesive (C2) with slip resistant (T), extended open time, (E) deformable (S1) of class **C2TES1**

FEATURES

- Very high performance strength.
- Flexible adhesive.
- Premium multi use adhesive.
- Excellent water and frost resistance.
- Excellent tensile & shear adhesion.
- Easy mixing, smooth application & better workabillity.

SUITABLE BACKGROUND / BASES

New substrates:

- Concrete walls & floor
- Cement sand screed
- Cement sand render
- Fibre cement boards, type H plaster boards(Water resistant), gypsum boards (rigidly fixed)

Renovation works on existing:

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

PHYSICAL PROPERTIES @ 27±2°c

Pot Life	2 hours
Setting Time	24 hours
Temperature Resistance	-5°C to +50°C
Bulk Density	1450 ± 50 KG/M3

Propertiesas perIS15477:2019 @27±2°C

Property withTest Method	Min. Requirements	Typical Result
Tensile Adhesion Strength (as per Annex A) Dry Condition Wet Condition	1.50 N/mm² 1.00 N/mm²	>1.86 N/mm² >1.45 N/mm²
Shear Adhesion Strength (as per Annex B) Dry Condition Heat Aging Condition Wet Condition	1.50 N/mm² 1.00 N/mm² 1.00 N/mm²	>1.89 N/mm² >1.39 N/mm² >1.54 N/mm²
Open time (as per Annex C)	As per Mftr.	30 mins
Adjustment time (as per Annex D)	As per Mftr.	40 mins
Slip (as per Annex E)	<0.50 mm	0.26 mm
Deformability (asperAnnex F)	≥2.5,<5.0 mm (for SI)	2.62 mm

COVERAGE ESTIMATES

Coverage

approx. $1.10 - 1.20 \text{ kg/m}^2 / \text{mm}$

Square notch Trowel size	Consumption/m ² (@ 45º angle of trowel)
4mm x 4mm	1.50 - 1.55 Kgs
6mm X 6mm	2.20 - 2.30 Kgs
8mm X 8mm	3.00 - 3.10 Kgs
12mm X 12mm	4.40 - 4.60Kgs

Note:

Pack size

20kg & 50kg

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.

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.



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SITE WORK INSTRUCTIONS SURFACE considerations

New Concrete:

Before rendering/plastering/tiling, allow walls to air dry for at least 6 weeks.

New Cement/Sand rendering

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

Existing Concrete/Screed Bases

Cut out all loose or hollow portions and make good with a 1:3 cement: sand mortar applied over a slurry bonding coat* and dry and cure for 7 days.

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

Mixing

Add Chemi Ultra White to clean water. Mix thoroughly until a lump-free mortar is obtained. A 20 kg bag will require approx. 3.90 - 4.10 litres of water to obtain a slump-free consistency. 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 (water: powder)

APPLICATION

- 1. Spread not more than the area which can be tiled within the open time of the adhesive.
- 2. 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.
- 4. Check periodically that good contact is maintained with the back of each tile.
- 5. Touch the adhesive ribs periodically and if a skin has formed, remove the adhesive and apply a new layer.
- 6. Leave adequate joints between individual wall and floor tiles unless self-spacing tiles are used.
- 7. 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.
- 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
 Y 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 Ultra White 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 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.

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