



FOR INTERNAL  
AND EXTERNAL USE



FASTER INSTALLATION



FASTER INSTALLATION  
WITH LESS MANPOWER



# TILEGLUE 4.0+

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## TECHNICAL DATA SHEET

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SIMPLE AND MASON  
FRIENDLY MATERIAL



BETTER COVERAGE



ECONOMICAL

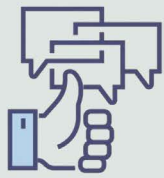


**TRUSTED BY  
THE BEST**



HIGHLY POLYMER MODIFIED, HIGH STRENGTH SINGLE COMPONENT CEMENTITIOUS ADHESIVE WITH EXTENDED OPEN TIME AND NO VERTICAL SLIP FOR THE INSTALLATION OF CERAMIC, VITRIFIED & FULLY VITRIFIED TILES, GLASS, MOSAIC, PORCELIN, PRECAST TERRAZZO, NATURAL STONE AND ENGINEERED STONES IN THE INTERIOR AND EXTERIOR FLOOR & WALL APPLICATIONS WITH A MAXIMUM BED THICKNESS OF 12 MM





## FEATURES AND BENEFITS

1. High strength, Polymer modified
2. Extended open time and good workability
3. Suitable for Interior and exterior floor and wall applications
4. Suitable for wet area applications like swimming pools, washrooms, water bodies and sauna
5. Bonds to various substrates
6. Water and shock resistance
7. Ready to use, consistent quality. Just mix with specified water ratio
8. Self-curing- No curing required, enriched with water retention technology
9. Faster installation with less man power- saves times and labour
10. Simple and mason friendly material
11. Anti-Slip properties for vertical applications
12. Easy mixing, smooth application and better workability & its properties



## INSTALLATION TYPES

**Substrate** - Type of stone/tile, area of installation and type of installation:

1. MIVAN/Shear Walls
2. Trimix concrete and VDF Concrete
3. Concrete
4. Concrete Masonry
5. Cement Mortar Beds
6. Cement Plaster
7. Existing Ceramic\*, Vitrified\* tiles and Natural stones\*
8. Cement Backer boards, Calcium Silicate Boards and Gypsum Wallboards
9. Swimming pools, Washrooms and any other wet areas
10. Water proofing membranes
11. Light weight blocks



## CERTIFICATION

1. EN 12004- C2TES1
2. IS 154 77:2019 - Type 3T S1
3. ANSI 118.4 TE S1

## Coverage

Approx 5-6 m<sup>2</sup> or 55-60 Sqft/20kg bag for 3mm thickness (using 6mm notch trowel).

Approx 3.5-4.5 m<sup>2</sup> or 37-48 Sqft/20kg bag for 4mm thickness (using 8mm notch trowel).

Approx 3-3.3 m<sup>2</sup> or 32-37 Sqft/20kg bag for 5mm thickness (using 10mm notch trowel).

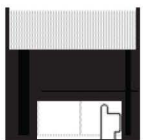
Approx 2.5-3 m<sup>2</sup> or 27-32 Sqft/20kg bag for 6mm thickness (using 12mm notch trowel).

Coverage will depend on the trowel notch size, evenness and smoothness of the substrate, type and size of tile and weather conditions.



## APPLICATION PROCEDURE

**Surface Preparation:** All the surfaces should be clean, dry, free from dust, oil, grease, loose bonded particles, peeling paints, concrete sealers and structurally sound. The surface should be true to the plumb. Uneven or rough surfaces should be made even and smooth with FCSC PLASTWELL /FCSC READYSCREED to provide a better flat finish. Dampen the dry, dusty concrete/masonry and surfaces heated from exposure to sunlight with water, sweep off the excess water if any. Allow 28 days for walls and floor surfaces to cure prior to tiling. Existing tiles must be roughed and cleaned.



## INSTALLATION PROCEDURE

Apply a thin layer of FCSC TILEGLUE 4.0+ adhesive to the substrate using the straight edge of the trowel. Place the material over the applied thin layer and comb the adhesive with notch side of the trowel. Spread as much adhesive as can be covered with tile in 15 minutes. If the tile/stone size is 2' x 2', back buttering is mandatory to provide full bedding and firm support. It is recommended to use the proper sized notch trowel to ensure the full bedding of the tile/

stone. Place the tile over the applied wet and sticky adhesive and beat it using rubber hammer or mallet to install it under a firm pressure to ensure a good coverage of the adhesive. Periodically, check the adhesive transfer on the back side of the tile by removing the tile. If the adhesive is dried/not sticky(skinned over), remove and replace with fresh material. It is recommended to provide a minimum of 3mm grout joint around the tiles while fixing the tiles.



## MIXING PROCEDURE

**Mixing:** Take 6-6.25L of clean, potable water per 20kg of FCSC TILEGLUE 4.0+ adhesive into a clean mixing bowl. Add adhesive powder into the mixing bowl and mix the material by hand or with a slow speed mixer until a smooth, lump-free paste is obtained.

Allow the adhesive to slake for 5 minutes. Adjust the consistency of the material accordingly if necessary, but make sure that the water used is within the recommended range. Remix the adhesive prior to the application and apply with the proper sized notch trowel. The paste should be kept away from direct sunlight and heat.



## TECHNICAL DATA

Product	<b>TILEGLUE 4.0+</b>
Color	Grey/White
Pack Size	20Kg(powder)

Application Data at 25±2°C & 60±5% RH

Open Time in minutes*	30 Minutes
Adjustable Time in Minutes	30 Minutes
Pot Life in hours	3-4Hours
Time to light foot traffic	16-24 Hours
Application Temperature	+5°C to +40°C

\*Open time may vary depending up on the site and atmospheric

### EN 12004 C2TES1

TEST PARAMETER	STANDARD REQUIREMENT	PRODUCT PERFORMANCE
Open Time (EN 1346)	≥0.50 N/mm <sup>2</sup>	0.90 -1.00
Slip Resistance (EN 1308)	≤0.50 mm	0.20-0.30
Deformability	>2.5 mm	2.8 - 3.0

### Tensile Adhesion Strength in N/mm<sup>2</sup>

Air Curing EN 1348; Cl 8.2	≥ 1.00 N/mm <sup>2</sup>	1.60-1.80
Water Curing EN 1348; Cl 8.3	≥ 1.00 N/mm <sup>2</sup>	1.40-1.60
Heat Curing EN 1348; Cl 8.4	≥ 1.00 N/mm <sup>2</sup>	1.20-1.40
Freeze-thaw EN 1348; Cl 8.5	≥ 1.00 N/mm <sup>2</sup>	1.40-1.60
Dry Condition	≥ 1.50 N/mm <sup>2</sup>	1.60-1.70
Wet Condition	≥ 1.00 N/mm <sup>2</sup>	1.35-1.45

### IS 15477:2019 -Type 3/T Tensile Adhesion Strength in N/mm<sup>2</sup>

### Shear Adhesion Strength in N/mm<sup>2</sup>

Dry Condition	≥ 1.50 N/mm <sup>2</sup>	2.00-2.20
Heat Ageing Condition	≥ 1.00 N/mm <sup>2</sup>	1.80-2.00
Wet Condition	≥ 1.00 N/mm <sup>2</sup>	1.90-2.10

### Tensile Adhesion Strength in N/mm<sup>2</sup>

Dry Condition	≥ 1.50 N/mm <sup>2</sup>	1.60-1.80
Wet Condition	≥ 1.00 N/mm <sup>2</sup>	1.40-1.60

### Slip Resistance

Slip Resistance; Cl 5.5	≤0.50 mm	0.20-0.30
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## PRECAUTION

Although TILEGLUE 4.0+ is non-hazardous material, as it contains Portland Cement one should take the following precautions should be taken:

- It is recommended to use the N95 nose mask, gloves and goggles while handling the material
- Keep out of reach of the children
- In case of contact with eyes, rinse your eyes with plenty of water and consult a doctor immediately



## LIMITATION

For laying tiles on floor, surface should be structurally sound (28 days curing) & good condition

- Always add powder to water & never add water to powder
- Do not add excess water than recommended
- Never add sand & cement to the mix at site
- Not recommended for Tile-on-Tile application
- Strictly not recommended for tiling on metal, wood, paint and gypsum plaster Do not use for vertical cladding of heavy stone & tiles.

For further and complete information about our product's safe use, please refer to the latest version of our material safety data sheet SHELF LIFE



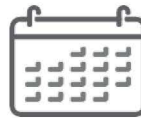
## GROUTING

Grouting can be done after 24 hours of installation for best results.



## CLEANING

The tools and containers should be cleaned with plenty of water while the adhesive is still fresh. The surfaces should be cleaned with a damp cloth before the adhesive dries.



## SHELF LIFE

12 months from the date of manufacturing in the original unopened manufacturer's packaging.



## STORAGE

Store in dry place away from the moisture



## CUSTOMER CARE

For any suggestion or concern, please mail to [support@fcsc.co.in](mailto:support@fcsc.co.in)

For any other product related queries please contact **+91 33 3500 0230**



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