



FOR INTERNAL  
AND EXTERNAL USE



FASTER INSTALLATION



FASTER INSTALLATION  
WITH LESS MANPOWER

# TILEGLUE 1.0

## TECHNICAL DATA SHEET



SIMPLE AND MASON  
FRIENDLY MATERIAL

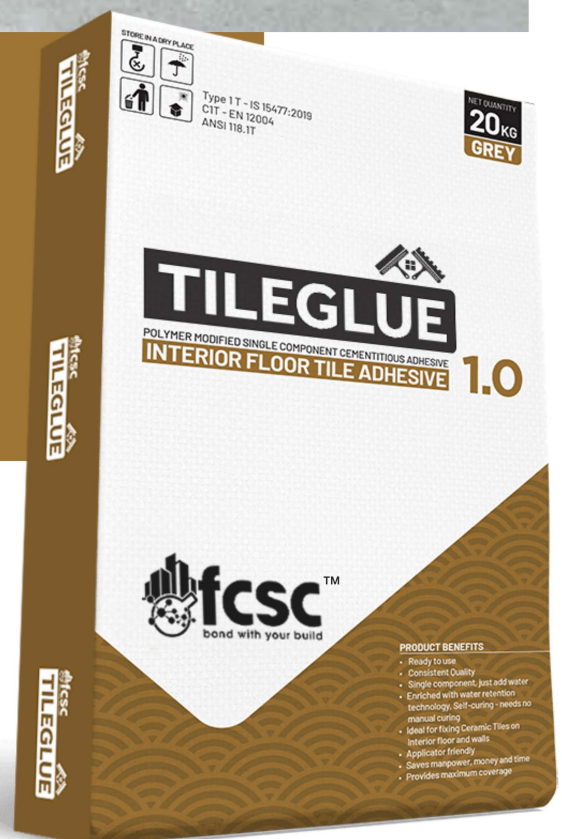


BETTER COVERAGE



ECONOMICAL







## FEATURES AND BENEFITS

1. Suitable for Interior applications, Polymer modified adhesive
2. Just mix with specified water ratio
3. Consistent Quality
4. Self-curing - No curing required, enriched with water retention technology
5. Faster installation with less man power - saves time and labour
6. Simple and mason-friendly material
7. Better open time, adjustable time, pot life
8. Economical and provides good coverage



## INSTALLATION TYPES

### Substrate

1. Concrete
2. Concrete & Brick
3. Masonry
4. Cement Mortar Beds
5. Cement Plaster/Screed
6. Existing Ceramic and Vitrified tiles
7. Existing Natural stones
8. Cement Terrazzo
8. Light weight blocks



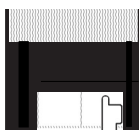
## CERTIFICATION

1. EN 12004- C1T
2. IS 154 77:2019 - Type 1T
3. ANSI 118.1T



## 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 PLASTWELL/FC 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 TILEGLUE 2.0+ 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  $\geq 2' \times 2'$ , 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



## MIXING PROCEDURE

Mixing: Take 5-6 litres of clean potable water per 20 kg FC TILEGLUE 1.0 into a clean mixing bowl. Add the 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. Remix the adhesive before the application and apply with the proper-sized notch trowel. The paste should be kept away from direct sunlight and heat.

over), remove and replace with fresh material.

It is recommended to provide a minimum of 2mm grout joint around the tiles while fixing the tiles.



## COVERAGE

Approximately 55-60 sft per 20kg bag with 6mm\*6mm square notched trowel.

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





## TECHNICAL DATA

Product : TILEGLUE 1.0  
Color : GRAY  
Pack Size : 20KG POWDER

Application Data at 25±2°C & 60±5% RH

Open Time in minutes\* : 20 Minutes  
Adjustable Time in Minutes : 20 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 C2T

| TEST PARAMETER | STANDARD REQUIREMENT | PRODUCT PERFORMANCE |
|----------------|----------------------|---------------------|
|----------------|----------------------|---------------------|

|                           |                          |            |
|---------------------------|--------------------------|------------|
| Open Time (EN 1346)       | ≤ 0.50 N/mm <sup>2</sup> | 0.75 -0.79 |
| Slip Resistance (EN 1308) | ≤ 0.50 mm                | 0.10-0.20  |

### Tensile Adhesion Strength in

|                              |                         |             |
|------------------------------|-------------------------|-------------|
| Air Curing EN 1348; CI 8.2   | ≥ 0.5 N/mm <sup>2</sup> | 0.80 -0.90  |
| Water Curing EN 1348; CI 8.3 | ≥ 0.5 N/mm <sup>2</sup> | 0.70 - 0.80 |
| Heat Curing EN 1348; CI 8.4  | ≥ 0.5 N/mm <sup>2</sup> | 0.65 – 0.75 |
| Freeze-thaw EN 1348; CI 8.5  | ≥ 0.5 N/mm <sup>2</sup> | 0.70 – 0.80 |

### IS 15477:2019 -Type 1/T Tensile Adhesion Strength in N/mm<sup>2</sup>

|                       |                         |           |
|-----------------------|-------------------------|-----------|
| Dry Condition; CI 5.1 | ≥ 0.5 N/mm <sup>2</sup> | 0.8 – 0.9 |
|-----------------------|-------------------------|-----------|

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

|                       |                        |           |
|-----------------------|------------------------|-----------|
| Dry Condition; CI 5.2 | ≥0.5 N/mm <sup>2</sup> | 1.3 – 1.4 |
|-----------------------|------------------------|-----------|

### Slip Resistance

|                         |           |           |
|-------------------------|-----------|-----------|
| Slip Resistance; CI 5.5 | ≤ 0.50 mm | 0.10-0.20 |
|-------------------------|-----------|-----------|



## PRECAUTION

Although TILEGLUE 1.0 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**



Scan the QR code to know more  
about our other products



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Singer-  
Shyam Business Park, Durgapur Express way, Dist - Singer, West Bengal, Pin - 712306

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Kolkata - 700 107.

[www.fcsc.co.in](http://www.fcsc.co.in)  
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#### Disclaimer

Information given in the data sheet is only a guideline for usage. Users are advised to undertake trial for product suitability prior to its full scale usage. There is no implied guaranty/warranty for the results and the company is not liable for any consequential damages.