



**Base Surakshit
Toh Tile Surakshit!**

BaseX Floor and Wall Tile Adhesive



IS 15477 : 2019



TYPE 2



ANSI Accredited Program Exceeds



Indian Green Building Council

Product Description

BaseX Premium adhesive is a high polymer modified thin-set tile adhesive, specially formulated for fixing fully vitrified tiles and natural stone of all types and size on floor. The adhesive can be used for fixing ceramic tiles on wall and is suitable for dry as well as wet areas for internal application. This is also suitable for tile-on-tile application for fixing vitrified tiles on pre-existing ceramic tile floors.



Technical Characteristics

Properties	Results
Appearance	Powder
Composition	Cement, Mineral Aggregates & Special Additives
Colour	Grey
Pack Size	20 Kg
Density	1.70 + 0.20 (wet) and 1.60 + 0.20 (Dry)
Mixing Ratio	5.5 - 6 Litres / 20 kg Bag
Open Time * as per EN 12004 - 2:2017	About 30 Minutes
Workable Time	Approx. 45 Min at Standard Conditions
Adhesion Strength* As per BS EN 12004 - 2:2017	>0.70N/mm ²
Applicable Standards	Exceeds ANSI A118.1, EN/ISO C2 & Conforms IS TYPE2
Wall Grouting	About 10 hours depending on absorbency
Floor Grouting	After 24 hours
Thickness	3 - 10 mm depending on tile size, notched trowel and application tools.
Coverage	Approx. 4-5 Kg/m ² (Coverage may vary depending on the thickness, tile size and bed thickness, transfer efficiency, substrate , etc)

IS Data

Property Test Method	Typical Values	Requirement
Tensile Adhesion strength		
A. Dry Condition 27 days under standard condition + 24 hours with pull head plate under standard conditions.	1.4 N/ mm ²	1.0 N/mm ²
B. Wet Condition 7 Days under standard condition + 13 days immerse in water + 7 Hours immerse in water at standard condition Total no of days 21	1.4 N/ mm ²	1.0 N/mm ²
Shear Adhesion strength		
A. Dry Condition 28 days under normal condition	1.45 N/ mm ²	1.25 N/ mm ²
B. Heat Ageing For 14 days normal laboratory condition +14 days storage in oven at temperature (70±3°c)	1.2 N/ mm ²	1.0 N/mm ²
C. Wet Condition Normal under laboratory condition +21days in water at laboratory temperature	1.3 N/ mm ²	1.0 N/mm ²

* Based on test carried out at Standard Conditions of Temperature and %Relative Humidity



Surface Preparation

- All Surfaces should be thoroughly cleaned using stiff brush to remove dust and loose particles, paint residues, wood pieces and molds, Oily stains, grease, etc.
- Concrete Surfaces should be properly cured with water before fixing tiles.
- All Surfaces Should be pre-wet to ensure no moisture be absorbed from this Tile Adhesive during application.

Mixing

- It should be mixed with clean potable water only.
- Mixing should be done in a clean plastic or non-corrosive metal bucket.
- An electric mixer with low rotation speed (200-300 rpm) is preferred to achieve a good and homogeneous mix.
- Mixing ratio is around 5.5 - 6.0 Liters of water per 20 Kg which can be adjusted as per site application conditions.
- Mixing is to be done until a uniform lump free paste is obtained.
- Once mixed allow the mix to rest for about 5 minutes and to be re-mixed again before commencing the application.
- Care should be taken that further water should not be added to the mix once set. Also Hard and set paste should not be remixed or reused

Application

- Apply BaseX tile Adhesive evenly on the substrate with a uniform thickness using a notched trowel, then adjust it to the desired thickness according to the size of the tile.
- Apply the Tiles onto the Adhesive bed with a slipping movement with enough pressure to ensure all tile surface is in contact with adhesive bed.
- BaseX is recommended to apply this on the substrate by areas of < 1 m² each which need to be tile fixed within a maximum of 10 minutes from application time at standard conditions. Spreading large areas of application without fixing tiles may lead to drying of the adhesive before tile fixing and eventually may reduce its bonding capability.
- Upon finishing, excess adhesive need to be removed with wet cloth before it dries





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Recommendation



- Care should be taken not to use set adhesive or remix with water.
- Ensure to not use it on metal, ceraboard, gypsum and other non-absorbing surfaces
- It is preferable to make sure to clean the surface well before applying the adhesive bed as it contributes to final adhesion strength
- Refrain from application during rain, unstable weather conditions or under direct sun light.

Note to Specifier and Installer

- While installing tile/stone on external floors or walls, we need to provide joints by creating spaces between the tile/stones and fill them up with flexible grout (In the absence of spacer joints, the surface movements can push tiles/stones away from the substrats causing debonding of tiles or stones.)
- The exterior tile/stone installations are provided with joints (spaces) on the periphery of the area without allowing the tile/stone to be bound by the peripheral masonry work for plaster.

Storage



- Shelf Life: 12 Months from date of manufacture if covered well and stored in pallets, away from heat, Sun light and moisture.
- Care should be taken that hard & lumpy materials are not to be used.

Health and safety

BaseX contains cement which becomes strongly alkaline upon mixing with water and this may cause skin irritation when exposed for very long time. Avoid contact with eyes and inhalation of dust. In case of skin/eyes contact, wash with plenty of clean water and seek medical attention immediately. It is highly recommended to use all relevant Personal Protective Equipment while handling it and work in well ventilated conditions while applying it. Keep out from the reach of children.

* Please refer to the Material Safety Data Sheet for more details.

Disclaimer :
The information given here is based on the best of our knowledge, good faith, experience and laboratory based results and therefore the results will vary depending on the real time application. Also, the values indicated in this Data Sheet here are subject to $\pm 10\%$ variance due to multiple factors. The recommendation on Tile usage given here is only indicative as it varies from different types and qualities of Tiles, their absorbing nature, manufacturers, etc. Also, the performance of our Tile Adhesive depends on the workmanship/quality of application job at the site. Hence BaseX Adhesive India Pvt Ltd is not responsible for any sort of claims/disputes arising out of any negative results by using our Tile Adhesive ranges of products. BaseX Adhesive India Pvt Ltd is not held responsible for use of this product for applications other than specified and/or adopting any faulty application/curing methodologies. It is the user's responsibility to have through this Technical Data Sheet prior to applying our products and to ensure with us that any product information is still prevailing at the time of application. Also the user must be sure that the product is suitable for the use intended and also applied it as specified while taking care of all precautionary measures. While all the products comply with the properties shown on current technical data sheets/brochures, We do not warrant or guarantee the products' performance as it doesn't have any control over factors adopted during its actual application.