

**Product Description:** JK CEMENT TileMaxX TA77 is a factory controlled Single Component and Polymer modified Cement Based Tile Adhesive with excellent Water Resistant Properties. Its unique blend of composition gives greater performance with Very high adhesive strength for varieties of Ceramic, Vitrified and Mosaic Tiles.



**Key Features:**

- ✓ Superior Bonding Strength
- ✓ High Water Resistance
- ✓ Excellent Slip Resistance



**Application Areas:**

- ✓ Designed to suit Wall and Flooring Tiles
- ✓ Suited for Interior and Exterior Areas
- ✓ Appropriate for wet areas such as Bathrooms, Kitchens, etc.

**Technical Characteristics:**

| Properties                                     | Results  |
|--|--|
| Appearance                                     | Powder   |
| Composition                                    | Cement, Mineral Aggregates & Special Additives   |
| Color  | Attractive White   |
| Density (Kg/Liter)                             | 1.70 ± 0.20 (Wet) and 1.60 ± 0.20 (Dry)  |
| Mixing Ratio                                   | 4.5 – 5.0 Liters/ 20 Kg Bag  |
| Open Time * as per EN 12004 – 2: 2017          | About 20 Minutes   |
| Workable Time                                  | Approx. 45 Minutes at Standard Conditions  |
| Adhesion Strength* as per BS EN 12004- 2: 2017 | >0.75 N/mm <sup>2</sup>  |
| Standards Classification                       | C1T at Standard Conditions & Temperature   |
| Pack Size                                      | 20 Kg Paper Bags   |
| 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 <sup>2</sup> (Coverage may vary depending on tile thickness, tile size and bed thickness, transfer efficiency, substrate, etc.) |

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



**Applicable Standards :**

EN 12004 - C1T | EN 1346 | EN 1348 | ISO 13007 - C1T | ANSI 118.1

**Application Guidelines:**

**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 4.5 – 5.0 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 TA77 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.
- TA77 is recommended to apply this on the substrate by areas of <math>< 1 \text{ m}^2</math> 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.

*\*JK application team is available for assistance upon request.*

## Recommendations:



- Care should be taken not to use set adhesive or remix with water.
- Ensure to not use it on metal, gypsum and other non-absorbing surfaces
- Do not use it for low absorption and large scale tiles.
- 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.

## Storage:



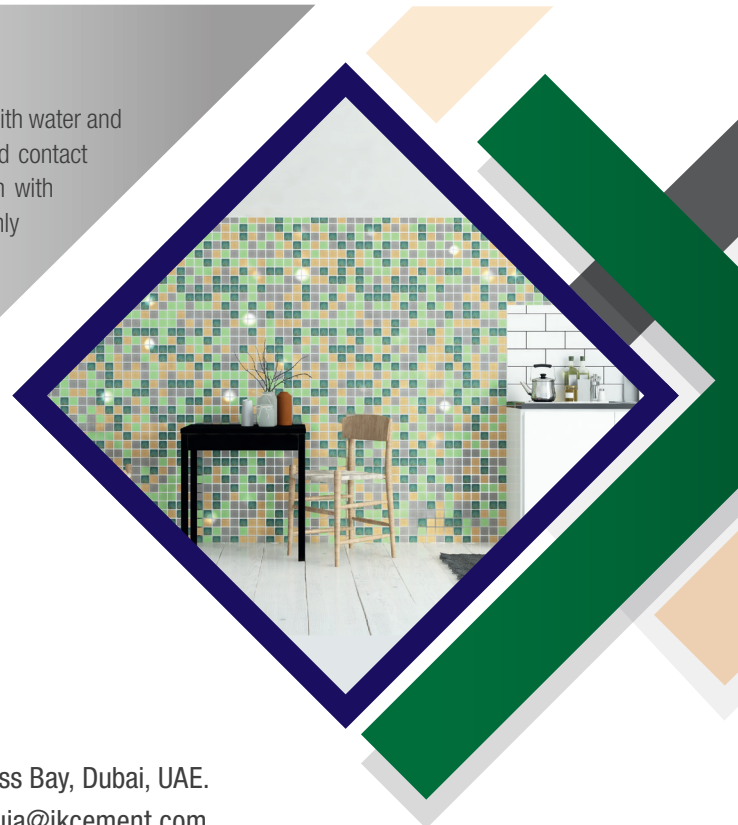
- Shelf Life: 12 Months from date of manufacture if covered well and stored in pallets, away from heat, Sun light and moisture.
- Care should be taken that hard & lumpy materials are not to be used.

## Health & Safety:



TA77 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.*



**JK CEMENT**  
**TileMaxX**

Manufactured & Packed in UAE by —  
**JK Cement Works (Fujairah) FZC**

P.O. Box: 123630, The Citadel Tower, Office 2007-08, Business Bay, Dubai, UAE.

Tel : +971 4 279 7306 | Fax : +971 4 420 3906 | Sales.fuja@jkcement.com

**www.jkcementuae.com**

Version 1.0 (Jan 2020)

**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 JK Cement Works (Fujairah) is not responsible for any sort of claims/disputes arising out of any negative results by using our Tile Adhesive ranges of products. JK Cement Works Fujairah 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 JK Cement Works Fujairah 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, JK Cement Works Fujairah does not warrant or guarantee the products' performance as it doesn't have any control over factors adopted during its actual application.