



With Enhanced
 Hi-Bond
 Polymers



JKCement TileMaxX 222 Universal Grey Adhesive is a grey cement based thin set tile adhesive with enhanced 'high-bond' polymers. It is suitable for fixing all types of ceramic, semi - vitreous, vitrified tiles and natural stones on a variety of substrates. It is applicable for both horizontal and vertical applications in interior and horizontal in exteriors.

Area of Application

This product is designed especially for interior floors and walls and exterior floors, for the installation of all types of ceramic, semi - vitreous and vitrified tiles and natural stones. It can be used in dry, wet and submerged areas such as swimming pools, saunas, kitchens, bathrooms etc. It is applicable on various substrates such as cement plaster, concrete, brick masonry, existing tiles and stones*, precast terrazzo etc. It can be used upto a maximum of 12mm bed thickness.

Substrates

- Cement screed
- Cement plaster
- Concrete masonry
- Brick masonry
- Cement terrazzo
- Existing vitrified tile* and ceramic tile*
- Existing natural stone*

* Surface should be cleaned and roughened before application of tiles or stones.

Key Benefits and Features

- Single component, just add water
- Superior bonding with all cementitious substrates
- Sag resistant for vertical application
- Tile on tile application
- Water and shock resistant
- Slip resistance as per BIS norms
- Easy mixing and smooth application
- Hi-bond strength

- No water curing required
- Complies with EN/ISO C2T classification
- As per IS 15477:2019 - Type 2T standard
- Fortify with latex compound for external wall applications**
- No VOC - for healthy living

** Consult with JK Cement TileMaxX technical team for external wall applications.

Typical Properties

Color	Grey
Powder Density	1.28 - 1.48 Kg/Litre
Open Time	15 ± 5 Minutes
Adjustment Time	20 ± 5 Minutes
Pot Life	90 - 120 Minutes

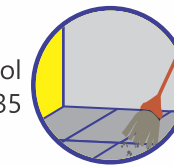
Water-Powder Ratio	24% - 27%
Foot Traffic/ Ready To Use	24 Hours

Note : Result depends on weather and site conditions

Application Method

1. Surface Preparation

- Surfaces temperature should be cool before application, ideally below 35 degrees.
- Surface should be structurally sound and free from dirt, oil, grease, loose peeling paint, concrete sealer or curing compound.
- All slabs must be plumb and true with in: Walls – 3mm in 2.5m, and Floors – 1.5mm in 1.0m
- Rough or uneven concrete surfaces should be made smooth with Screed/Plaster material. Use a wood float for better finish.
- Dry, dusty concrete slabs or masonry should be dampened and excess water should be swept off.



Installation may be made on a damp surface.

- New concrete slabs shall be damp cured and should be 28 days old before application.

2. Mixing and Blending

- Take 5 - 6 Litres of potable water into a clean container.
- Gradually mix 20 Kg JK Cement TileMaxX with slow speed mixer to get a uniform lump-free paste in workable consistency.
- Allow paste to settle for 5-10 minutes. Adjust consistency, if necessary.
- Mixed paste should be used within 90-120 minutes.



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Application Method

3. Fixing Application

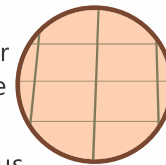
- Apply adhesive uniformly on a substrate to a desired thickness with flat side of notch trowel. Comb with a notch trowel using notched side.
- Use proper size of notched trowel to ensure full bedding of the tile.
- Spread as much adhesive paste as it can be tiled within 10 minutes.
- Large format tiles* (above 12"x12" size) should be back buttered to provide full bedding and firm support.
- Press the tile against the applied tile adhesive and fix it by using rubber mallet. Imbed tile and adjust level.
- Ensure that back of the tile is fully covered with the tile adhesive.
- Ensure adequate gap between tiles/stones to accommodate thermal expansion and contraction.



- As required one can use spacer to provide grout joints between tiles/stones. Remove the spacers when the adhesive is firmly set.
- If the Tile adhesive is dried and skinned, then adhesive should be removed and replaced with a fresh adhesive.

4. Grouting

- Grouting should be carried out after 24 hours from the time of tile installation.
- Grout with TileMaxX Cementitious Grout.
- For stain resistance, use TileMaxX Epoxy Grout.



* Contact customer technical services for large format tile or stone installations on exterior surfaces.

* Tiles & stones should be clamped for safety in all interior and exterior wall installation above 3 meters.

Technical Information

Test specification requirement as per IS 15477:2019

S.No.	Test Property	Test Method	Specification	Typical Value
1	Tensile Adhesion (N/mm²)			
	(a) Dry Condition - 28 days	IS 15477:2019 Annex A (Clause 5.1)	Min. 1.0 N/mm ²	1.05 - 1.20 N/mm ²
	(b) Wet Condition - 21 days	IS 15477:2019 Annex A (Clause 5.1)	Min. 1.0 N/mm ²	1.05 - 1.20 N/mm ²
2	Shear Adhesion (N/mm²)			
	(a) Dry Condition - 28 Days	IS 15477:2019 Annex B (Clause 5.2)	Min. 1.25 N/mm ²	1.35 - 1.45 N/mm ²
	(b) Heat Ageing Conditions - 28 Days	IS 15477:2019 Annex B (Clause 5.2)	Min. 1.0 N/mm ²	1.10 - 1.40 N/mm ²
	(c) Wet Condition - 28 Days	IS 15477:2019 Annex B (Clause 5.2)	Min. 1.0 N/mm ²	1.10 - 1.20 N/mm ²
3	Slip (required for vertical application only)	IS 15477:2019 Annex E (Clause 5.5)	Shall not be more than 0.5 mm	0.35 - 0.45 mm
4	Deformability (required for vertical application only)			
	(a) Deformable Adhesive S1	IS 15477:2019 Annex F (Clause 5.6)	≥ 2.5 mm, < 5.0 mm	NA
	(b) Highly Deformable Adhesive S2	IS 15477:2019 Annex F (Clause 5.6)	≥ 5.0 mm	NA

Technical Information

Test specification requirement as per EN 12004 & ISO 13007

S.No.	Test Property	Test Method	Specification	Typical Value
1	Open Time : Tensile Adhesion Strength (N/mm²)			
	(a) After 5 Minute	EN 1346		1.05 - 1.15 N/mm ²
	(b) After 20 Minute	EN 1346	≥ 0.5 N/mm ² After not less than 20 minute	0.5 - 0.65 N/mm ²
	(c) After 30 Minute	EN 1346	≥ 0.5 N/mm ² After not less than 30 minute	NA
2	Tensile Adhesion Strength (N/mm²)			
	(a) Dry Conditions - 28 Days	EN 1348	≥ 1.0 N/mm ²	1.10 - 1.20 N/mm ²
	(b) Water Immersion Conditions - 28 Days	EN 1348	≥ 1.0 N/mm ²	1.0 - 1.10 N/mm ²
	(c) Heat Ageing Conditions - 28 Days	EN 1348	≥ 1.0 N/mm ²	1.16 - 1.25 N/mm ²
3	Slip Resistance (for vertical application)	EN 1308	≤ 0.5mm	0.10 mm
4	Transverse Deformation			
	(a) Deformable Adhesive - S1	EN 12002	≥ 2.5 mm, < 5 mm	NA
	(b) Highly Deformable Adhesive - S2	EN 12002	≥ 5 mm	NA

Packing : 20 Kg BOPP Bags

Coverage : Approx 50-55* sq.ft. per 20 Kg bag when applied by notch trowel of size 1/4" x 1/4" (6mm x 6mm) square notched trowel at an average thickness of 3mm.

* Coverage depends upon trowel notch size, type and size of tiles and substrate evenness and smoothness

Shelf Life : 12 months from the date of manufacturing, when stored in dry area.

Note : Actual coverage and field performance will depend on installation method and site conditions.