

# TileOX™



## हर दीवार और फ्लोर टाइल की मांग

# Tile Adhesives



Water Resistant  
& Low-VOC



Tile-On-Tile  
Application



Higher Shear  
bond strength.



For Tiles &  
Natural stones



Non-slip  
Adhesive



Highly polymer  
modified



Available in 20Kg.

## Product Description

**TILEOX™ 207 Tile Adhesive** is a polymer modified, cement-based, grey tile adhesive for fixing all types of ceramic, vitrified, glass mosaic tiles, terrazzo & stones on floors and walls on interior walls/floors and exterior flooring. It is water resistant, show low shrinkage and doesn't allow cracking of tiles.

## Suitable Areas

### Material:

High porosity ceramic, fully vitrified, porcelain, quarry tiles and stones.

### Substrate:

Cement based screed, mortar beds, gypsum & cement plaster, terrazzo, brick & AAC block masonry & other cement based concrete surfaces.

### Area of application:

For floor & walls in internal dry & wet areas as well as flooring in external dry and wet areas.

### Packing :

20 kg PP Bag with Liner.

## Technical Data:

Conforms to IS 15477:2019- TYPE 1 'T' & EN 12004 'C2TE'

## Application Properties

SPECIFICATIONS	RESULTS
Colour	Grey
Form	Powder
Mixing Ratio	4-5Ltr Water per 20kg Bag Adhesive
Bulk Density	1.3-1.5 gm/cc
Mixing Density	1.7-1.9 gm/cc
Open Time (IS 15477:2019)	Approx. 30 minutes
Adjustment Time (IS 15477:2019)	Approx. 30 minutes
Pot Life	Approx. 120 minutes
Setting Time	24 Hours
Allowed Adhesive Thickness	3-12mm
Time to Light Foot Traffic	16-24 Hours
Ready for use	14 days

\* Properties measured at 70° F (21° C).

## Performance Properties

### As per IS 15477:2019 (TYPE 2 'T')

Testing Properties	Requirement	Results	Test Methods (IS 15477:2019)
Tensile Adhesion (Dry Condition 28 Days)	1.0 N/mm <sup>2</sup>	1.30-1.40 N/mm <sup>2</sup>	Annexure A Clause 5.1
Tensile Adhesion (Wet Condition 28 Days)	1.0 N/mm <sup>2</sup>	1.20-1.30 N/mm <sup>2</sup>	Annexure A Clause 5.2
Shear Adhesion (Dry Condition 28 Days)	1.25 N/mm <sup>2</sup>	1.80-1.90 N/mm <sup>2</sup>	Annexure B Clause 5.2
Shear Adhesion (Heat Aging Condition 28 Days)	1 N/mm <sup>2</sup>	1.45-1.55 N/mm <sup>2</sup>	Annexure B Clause 5.2
Shear Adhesion (Wet Condition 28 Days)	1 N/mm <sup>2</sup>	1.60-1.70 N/mm <sup>2</sup>	Annexure B Clause 5.2
Slip Resistance	≤ 0.5 mm	0.30-0.40 mm	Annexure E Clause 5.5

### EN 12004

### As per EN 12004 'C2TE' / ISO 13007

Testing Properties	Requirement	Results	Test Methods (IS 15477:2019)
E- Extended open time (≥ 30 minutes)	≥ 0.5 N/mm <sup>2</sup>	0.70-0.80 N/mm <sup>2</sup>	EN 1346
T-Slip Resistance	≤ 0.5 mm	0.35-0.45 mm	EN 1308
Tensile Adhesion Strength (C2)	≥ 1.0 N/mm <sup>2</sup>	1.25-1.35 N/mm <sup>2</sup>	EN 1348 Clause 8.2
Tensile Adhesion Strength (After Water Immersion)	≥ 1.0 N/mm <sup>2</sup>	1.15-1.25 N/mm <sup>2</sup>	EN 1348 Clause 8.3
Tensile Adhesion Strength (Heat Ageing)	≥ 1.0 N/mm <sup>2</sup>	1.25-1.35 N/mm <sup>2</sup>	EN 1348 Clause 8.4
Tensile Adhesion Strength (Freeze & Thaw)	≥ 1.0 N/mm <sup>2</sup>	1.20-1.25 N/mm <sup>2</sup>	EN 1348 Clause 8.5

\*Test results are indicative as per testing method specified in standard. Test results may vary as per substrate, site condition & testing machine etc. Actual field performance will depend on installation.

## Limitations & Precautions:

It is a ready to use tile adhesive, do not add sand or cement further.

To avoid lumps, always add powder to water and mix it slowly with low-speed mixer not with hands.

Surface should be dry, clean and free from all the dirt, oil etc. before application.

Use of notched trowel is mandatory to achieve required thickness of adhesive.

Protect it from rainfall and foot traffic for at least 24 hours.

Designer/Applicator must evaluate the use of an additional mechanical fastening system for extra security for more than 3m height (such as steel hooks fastened to the substrate).

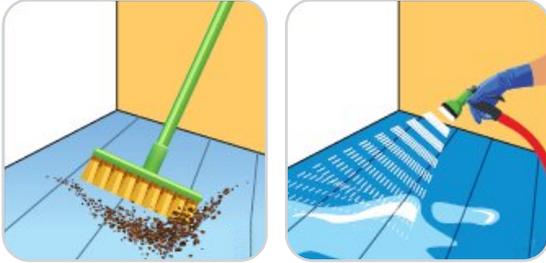
Don't use on surfaces which are subject to vibrations.

Use of gloves and goggles is recommended. In case of contact, rinse with clean water.

Keep out of reach of children.

## Method of Application

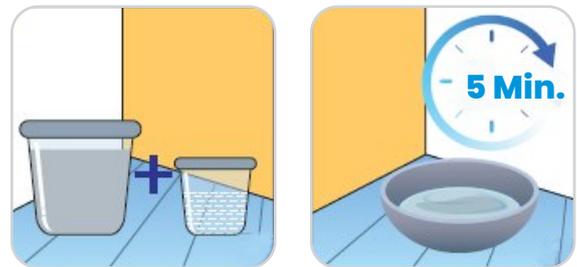
### SURFACE PREPARATION



- Surface should be clean and free from all the dirt, oil, grease, concrete sealer or curing compounds.
- They should be structurally sound, leveled, properly cured, undamaged, rigid, resistant, pre-wet and protected against damp rising.
- Expansion joints to be filled properly with suitable sealants (not with tile adhesive).
- Installation should be done on a dry surface. New Concrete slabs should be damp cured and at least 28 days old prior to application.

### MIXING

- Add 4-5 liters of potable water into a clean mixing bucket/container.
- Then gradually add 20kg Tileox™ 207 slowly in mixing bucket/container (not vice versa) and mix it gradually with slow speed mixer (<500 rpm) to get a uniform, lump-free paste in workable consistency. Add additional water if necessary.
- Allow paste to settle for 5-10 minutes.
- Remix the paste for 15-20 seconds before using and use the mixture within 90-120 minutes.

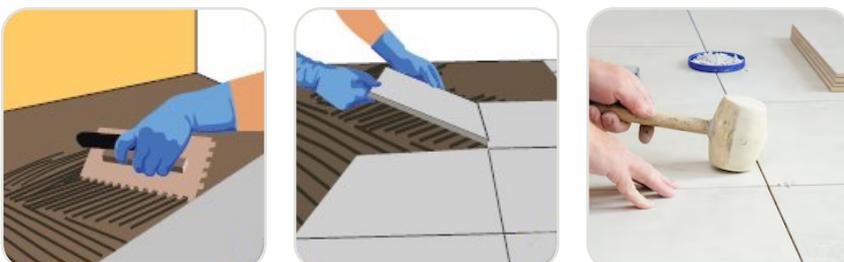


### APPLICATION

- Apply the mixed material uniformly on the surface with the help of flat side of notched trowel.
- Use proper size of notched trowel to ensure full bedding of tile.
- For larger size tiles with sides > 2 feet, apply mortar on the back of the tile as well with flat sided notched trowel.
- Then press the tile firmly and hammer gently with soft mallet to ensure the perfect bond.
- Check the adhesive ribs periodically and if a skin has formed, removed the dried adhesive and apply fresh adhesive.
- Use Suitable support along with adhesive for fixing tiles on vertical surfaces.
- Clean the surplus adhesive from the joints.
- As required, use tile spacer to provide grout joints between tiles/stones and leave the tile applied untouched for 24 hours.
- Remove the tile spacers after 24 hours when tiles are firmly set.



- Then **Grout with Tileox™ 204** cementitious tile grout and for stain resistance use **Tileox™ 402 Epoxy Tile Grout**.



- Clean any excess adhesive/grout/Epoxy grout with **Tileox™ Tile Cleaner** and then wipe with a damp sponge/cloth.

## Coverage

A coverage of 45-55 Sq.ft per bag of 20Kg is received with a bed thickness of 3mm (using a 6mmx6mm square notched trowel).

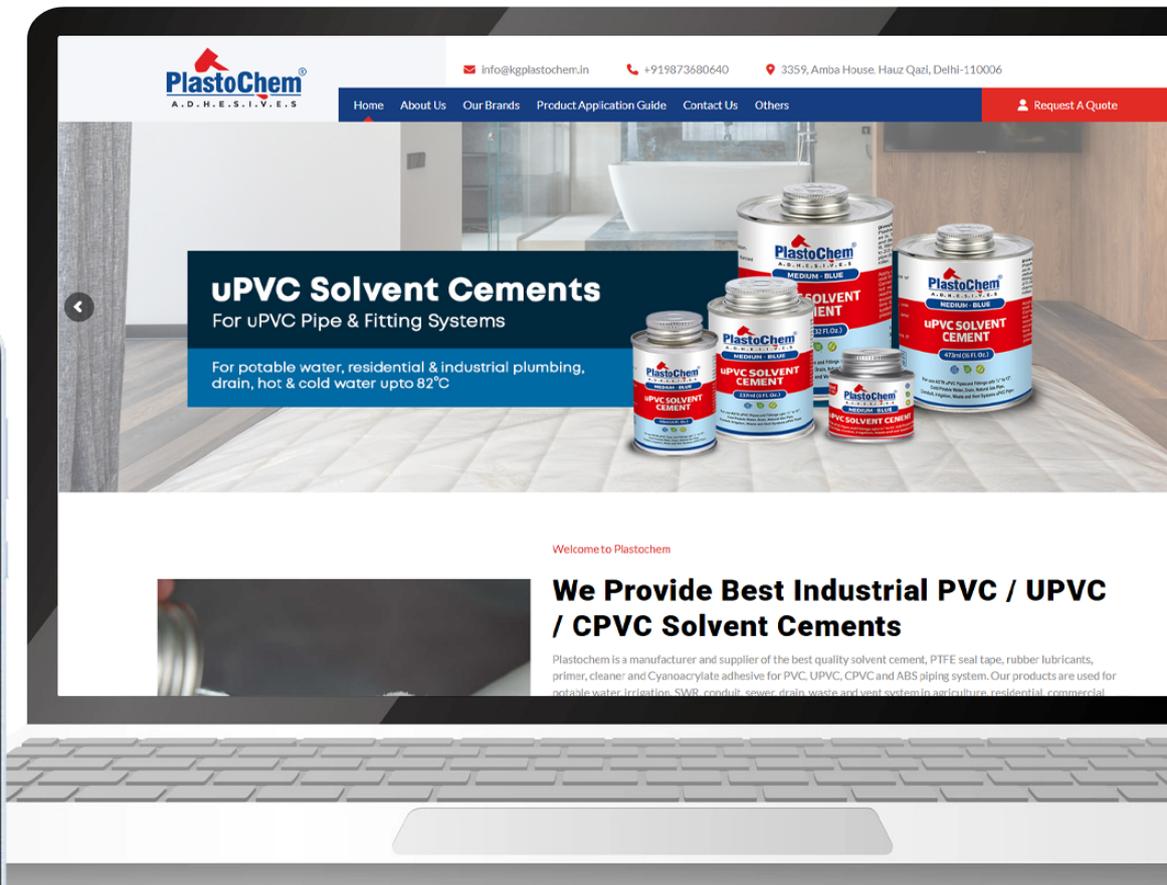
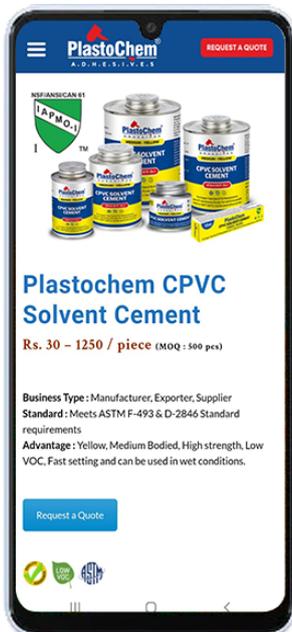
Note: Coverage is based on smoothness and evenness of the substrate and the thickness of the mortar.



## Storage & Shelf Life

Store in cool and dry place, preferably away from direct sun light.

**Shelf Life:** 12 Months from the date of manufacturing when stored in originally sealed bag.



Manufacturer:

**KG Plastochem (I) Pvt. Ltd.**

An ISO 9001: 2015 Certified Co.

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