

# TileOX™



## हर दीवार और फ्लोर टाइल की मांग

# Tile Adhesives



Water Resistant  
& Low-VOC



Tile-On-Tile  
Application



Higher Shear  
bond strength.



Large Tiles &  
Natural stones



Extended  
Open Time



Highly polymer  
modified



Available in 20Kg.

## Product Description

**TILEOX™ 306 Tile Adhesive** is a highly polymer modified, cement-based tile adhesive for fixing large format of ceramic, vitrified tiles, granite, marble & all types of stones on floors and walls on both interior & exterior walls and floors. Can be used in both dry and wet areas as it shows low shrinkage and doesn't allow cracking of tiles.

## Suitable Areas

### Material:

Large format high porosity ceramic, fully vitrified, porcelain tiles, granite, marble and all types of stones.

### Area of application:

For both floor & walls in internal & external dry and wet areas. Specialised adhesive for Swimming pool, fountain, spa and water bodies.

### Substrate:

Cement based screed, mortar beds, gypsum & cement plaster, fibre slabs, waterproofing products & other cement based concrete surfaces.

### Packing:

20 kg PP Bag with Liner.

## Technical Data:

Conforms to IS 15477:2019- TYPE 3 'T' & EN 12004 'C2TE S1'

## 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      | 3-14 mm                            |
| 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 3 'T')

| Testing Properties                            | Requirement            | Results                     | Test Methods (IS 15477:2019) |
|---|------------------------|-----------------------------|------------------------------|
| Tensile Adhesion (Dry Condition 28 Days)      | 1.50 N/mm <sup>2</sup> | 1.60-1.70 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)        | 1.50 N/mm <sup>2</sup> | 1.50-1.60 N/mm <sup>2</sup> | Annexure B Clause 5.2        |
| Shear Adhesion (Heat Aging Condition 28 Days) | 1.00 N/mm <sup>2</sup> | 1.15-1.25 N/mm <sup>2</sup> | Annexure B Clause 5.2        |
| Shear Adhesion (Wet Condition 28 Days)        | 1.00 N/mm <sup>2</sup> | 1.15-1.25 N/mm <sup>2</sup> | Annexure B Clause 5.2        |
| Slip Resistance                               | < 0.5 mm               | 0.20-0.30 mm                | Annexure E Clause 5.5        |
| Transverse Deformation                        | >2.5mm to <5mm         | 2.60-3.00 mm                | Annexure F Clause 5.6        |

### EN 12004

### As per EN 12004 'C2TE S1' / ISO 13007

| Testing Properties                                | Requirement             | Results                     | Test Methods (IS 15477:2019) |
|---|-------------------------|-----------------------------|------------------------------|
| E- Extended open time (≥ 30 minutes)              | ≥ 0.5 N/mm <sup>2</sup> | 0.80-1.00 N/mm <sup>2</sup> | EN 1346                      |
| T-Slip Resistance                                 | ≤ 0.5 mm                | 0.35-0.50 mm                | EN 1308                      |
| Transverse Deformation (S1)                       | ≥ 2.5mm - <5mm          | 2.60-3.00 N/mm <sup>2</sup> | EN 12002                     |
| Tensile Adhesion Strength (C2)                    | ≥ 1.0 N/mm <sup>2</sup> | 1.30-1.50 N/mm <sup>2</sup> | EN 1348 Clause 8.2           |
| Tensile Adhesion Strength (After Water Immersion) | ≥ 1.0 N/mm <sup>2</sup> | 1.30-1.50 N/mm <sup>2</sup> | EN 1348 Clause 8.3           |
| Tensile Adhesion Strength (Heat Ageing)           | ≥ 1.0 N/mm <sup>2</sup> | 1.10-1.20 N/mm <sup>2</sup> | EN 1348 Clause 8.4           |
| Tensile Adhesion Strength (Freeze & Thaw)         | ≥ 1.0 N/mm <sup>2</sup> | 1.30-1.50 N/mm <sup>2</sup> | EN 1348 Clause 8.5           |

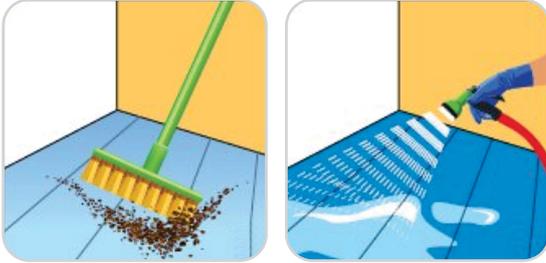
\*Test results are indicative as per testing method specified in standard. Test results may vary as per substrate, site condition & testing machine etc. Actual field performance will depend on installation methods and site conditions.

## 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

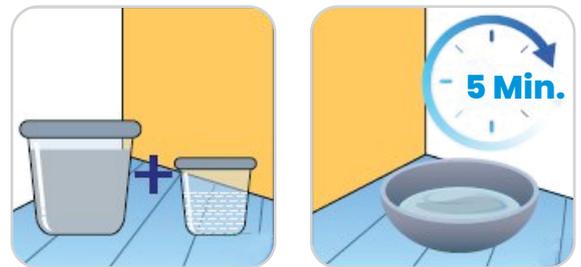
### SURFACE PREPARATION



- 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.

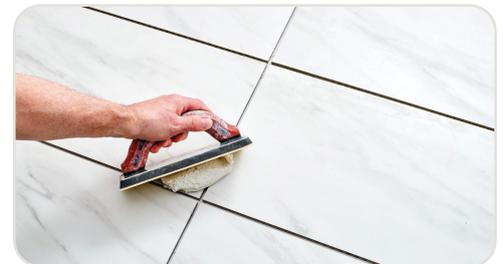
### MIXING

- Add 4-5 liters of potable water into a clean mixing bucket/container.
- Then gradually add 20kg Tileox™ 306 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.

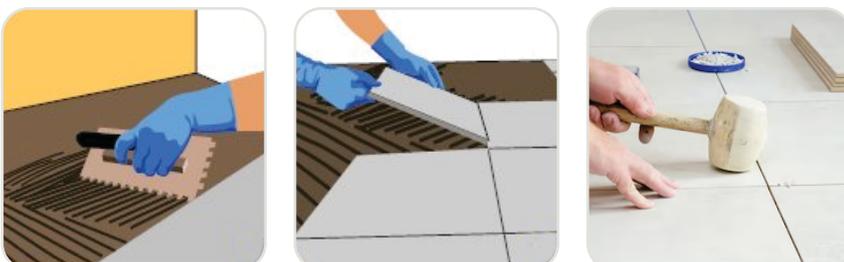


### APPLICATION

- 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).

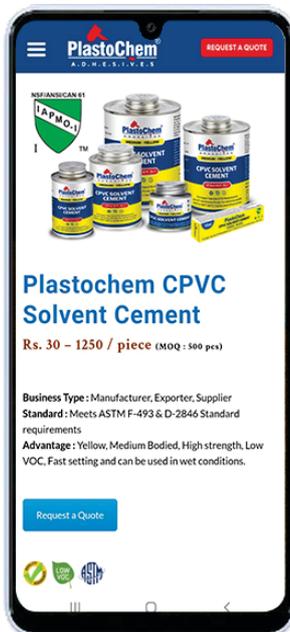
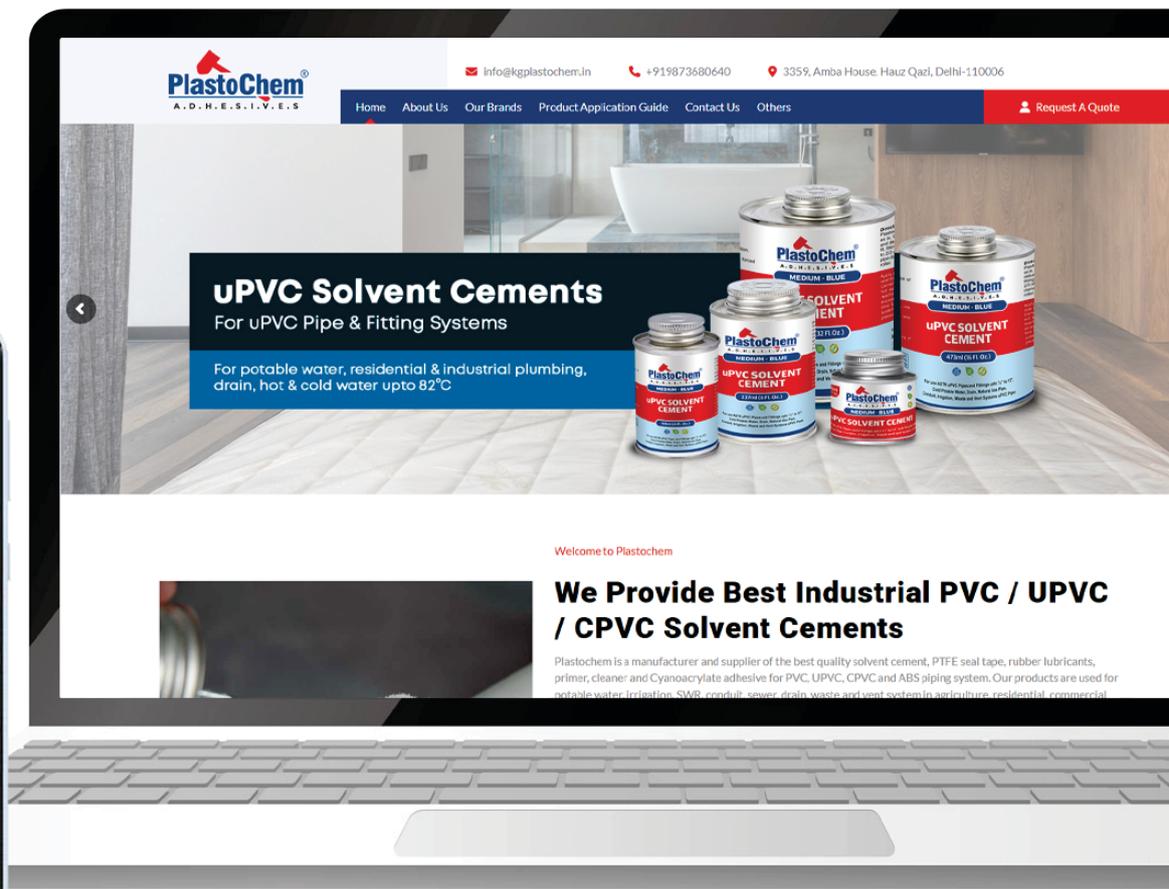
**Note:** Coverage is based on smoothness and evenness of the substrate and the thickness of the mortar.



## 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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