

# TileOX™



## हर दीवार और फ्लोर टाइल की मांग

# Tile Adhesives



Weatherproof and highly flexible



Metal, Plywood, Drywall boards



Extreme Shear bond strength.



Large Tiles & Natural stones



Extended Open Time



Versatile all-purpose adhesive



Available in  
4kg & 8kg Bucket

## Product Description

**TILEOX™ 504 PU Flex Tile Adhesive** is a two-component, ready-to-mix Epoxy thin-set adhesive designed for fixing large format of tile and stone sizes. It excels at adhering all types of tiles and stones to different substrate, including metal, glass and all the substrates which are highly deformable and expandable, absorbent and non-absorbent. High adhesion adhesive with no vertical slip-on deformable substrates, ideal for use in green building.

## Suitable Areas

### Material:

Large format high porosity ceramic, fully vitrified, glass tiles, Quartz, granite, marble and all types of stones. Also applicable for Slim tiles, Composite/Neno/Artificial engineered stones.

### Area of application:

For both floor & walls in internal & external dry and wet areas. Excellent for elevation purposes, extreme demands in all verticals of interiors & exteriors.

### Substrate:

Metal, Wood & Plywood, Rubber, PVC, WPC, Epoxy or PU resin-based surface, Cement based plaster/screed/concrete/terrazzo, fibre cement slabs, thermal insulation paneling systems and concrete masonry & brick masonry.

### Packing:

4kg & 8kg Bucket

## Technical Data:

Conforms to IS 15477:2019- TYPE 5 'T'S2 & EN 12004 'R2T S2'

## Application Properties

SPECIFICATIONS	RESULTS
Colour	Off White (After Mixing)
Form	Highly Deformable
Mixing Ratio	94:6
Bulk Density	1.55-1.60 gm/cc
Mixing Density	Very Viscous
Open Time (IS 15477:2019)	Approx. 20 minutes
Adjustment Time (IS 15477:2019)	Approx. 20 minutes
Pot Life	Approx. 40 minutes
Setting Time	12 Hours
Allowed Adhesive Thickness	≤0.5mm
Time to Light Foot Traffic	-40° C to 100° C
Ready for use	3 Days (7 Days for Heavy Traffic)

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

## Performance Properties

### AS PER IS 15477:2019 (TYPE 5 'T' S2)

Testing Properties	Requirement	Results	Test Methods (IS 15477:2019)
Tensile Adhesion (Dry Condition 28 Days)	2.00 N/mm <sup>2</sup>	3.50-4.00 N/mm <sup>2</sup>	Annexure A Clause 5.1
Shear Adhesion (Dry Condition 28 Days)	6.00 N/mm <sup>2</sup>	6.50-7.50 N/mm <sup>2</sup>	Annexure B Clause 5.2
Shear Adhesion (Heat Aging Condition 28 Days)	3.00 N/mm <sup>2</sup>	3.50-4.50 N/mm <sup>2</sup>	Annexure B Clause 5.2
Transverse Deformation	> 5mm	8-10 mm	Annexure F Clause 5.6

### EN 12004

### As per EN 12004 'R2T S2' / ISO 13007

Testing Properties	Requirement	Results	Test Methods (IS 15477:2019)
T-Slip Resistance	≤ 0.5 mm	0.20-0.30 mm	ISO 13007-2:2010 Clause 4.2
Tensile Adhesion Open Time (60 Minutes)	≥ 1.0 N/mm <sup>2</sup>	1.30-1.60 N/mm <sup>2</sup>	ISO 13007-2:2010 Clause 4.4
Initial Shear Adhesion Strength	≥ 2.0 N/mm <sup>2</sup>	4.50-5.50 N/mm <sup>2</sup>	ISO 13007-2:2010 Clause 4.3.4
Shear Adhesion Strength (After Water Immersion)	≥ 2.0 N/mm <sup>2</sup>	4.00-5.00 N/mm <sup>2</sup>	ISO 13007-2:2010 Clause 4.3.5
Tensile Adhesion Strength (After thermal shock)	≥ 2.0 N/mm <sup>2</sup>	4.00-5.00 N/mm <sup>2</sup>	ISO 13007-2:2010 Clause 4.2.8

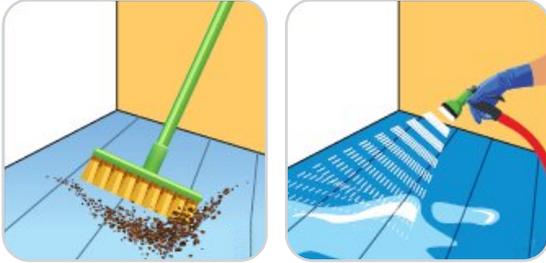
\*Test results are indicative as per testing method specified in standard. Test results may vary as per substrate, site condition & testing machine etc. Actual field performance will depend on installation methods and site conditions.

## Limitations & Precautions:

- Application time may vary as per the environmental conditions and tile's temperature.
- Application should not be done on the moist or partially dry surface.
- 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

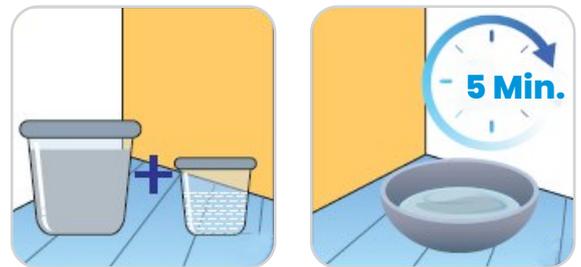
### SURFACE PREPARATION



- 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

- Pour Hardener (Part B) in Resin (Part A) into a clean mixing bucket/container and mix it gradually with slow speed mixer (<500 rpm) to get a uniform, lump-free paste in workable consistency. Don't add additional water.
- Mix only that much quantity which can be consumed in an hour.
- Leave the mixture for 5 minutes before use.



### APPLICATION

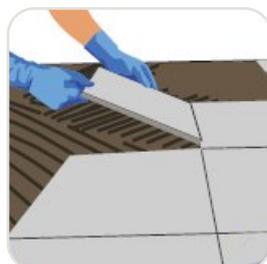
- Apply the mixed material uniformly on the surface with the help of flat side of notched trowel. Additional mortar should be applied with the notched edge of the trowel.
- Use proper size of notched trowel to ensure full bedding of tile.
- For larger size tiles with sides > 2 feet, apply mortar on the 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 8-10 Sq.ft per bucket of 4Kg is received with a bed thickness of 3mm (using a 6mmx6mm square notched trowel).

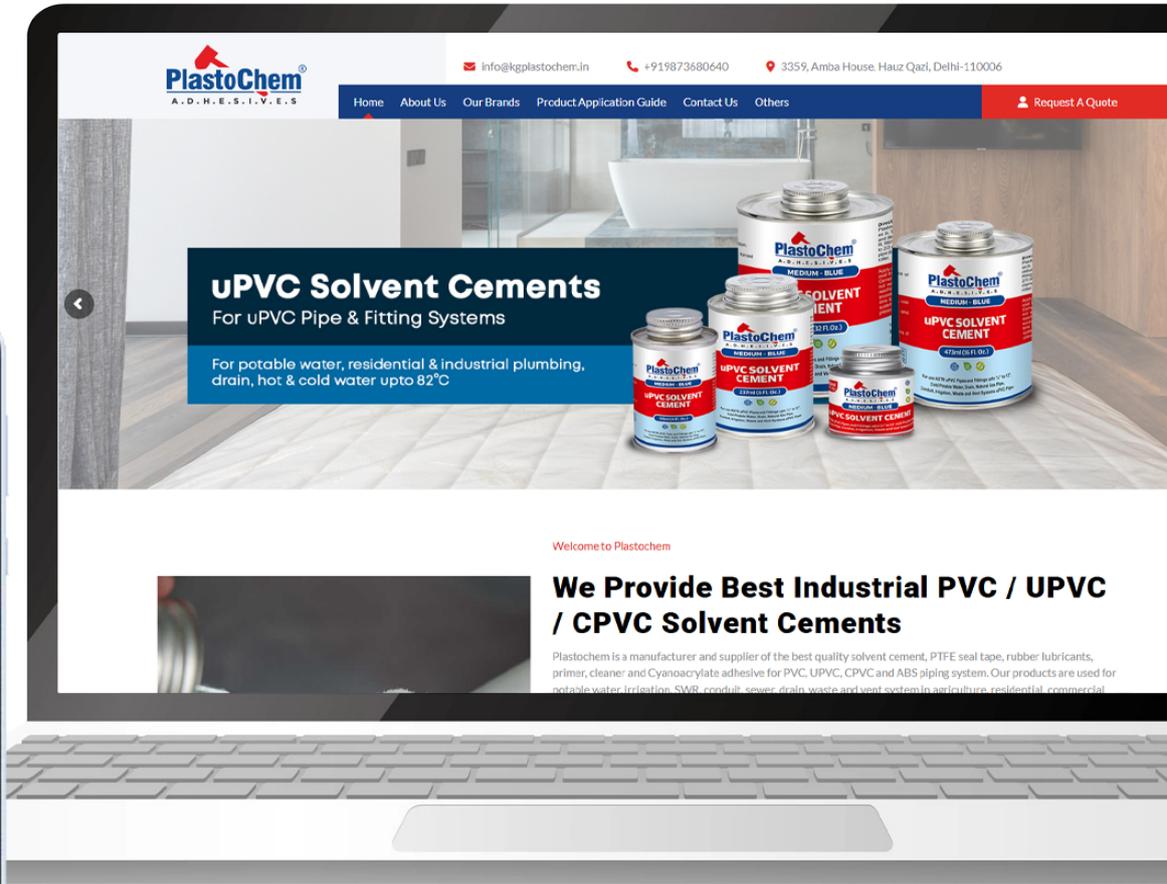
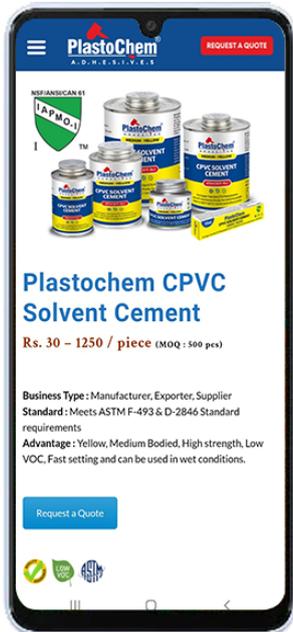
**Note:** Coverage is based on smoothness and evenness of the substrate and the thickness of the mortar.



## 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 a original sealed container.



Manufacturer:

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

An ISO 9001: 2015 Certified Co.

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