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## TECHNICAL DATASHEET

# ASCOPOXY

**Two Part, Hygienic and High Performance Epoxy Grout cum Adhesive**


## INDEX



## PRODUCT INTRODUCTION

ASCOPOXY is a solvent free two part epoxy grout and as a set adhesive, offering a unique combination of features and benefits. It has high compressive, flexural and shear adhesion strength. ASCOPOXY is resistant to several acids, alkalis, corrosive agents for concrete, cleaning agents, sea water and salted water. It has excellent workability for flooring applications and is easily cleaned with water before hardening. It is designed for grouting gaps ranging 1.5 mm – 15 mm.

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## KEY FEATURES

1. Very high compressive, tensile & flexural strength
2. Excellent resistant to a wide range of chemicals, acid, solvent & stain, etc.
3. Hygienic and dust free
4. Excellent water resistant
5. UV & weather resistant

## RECOMMENDED APPLICATIONS

ASCOPOXY is applied wherever high strength to mechanical loads and resistance to chemical effects is required. It is ideally combined with special tiles for residential & industrial use. It is suitable for Inside/ Outside Floors and Walls, Kitchens, Bathrooms, Restaurants, Malls, Breweries, Dairies, Laboratories, Swimming Pools, Hospitals, and in other sectors of food or chemical industries etc.

## TECHNICAL PROPERTIES (Compiles to EN 13888, 12003, & ANSI 118.3 & ASTM C 579, 496, 882, 88)

| | |
|---|---|
| Appearance | Part A - Colored Resin Paste<br>Part B - Thick Liquid Hardener |
| Solids | 100 % by weight |
| Bulk Density | 1.60 Kg/$m^3$ |
| Pot Life | 45 ± 10 Minutes |
| Compressive Strength | ≥ 55.00 N/$mm^2$ @ 7 Days |
| Tensile (Split) Strength | ≥ 11.50 N/$mm^2$ @ 7 Days |
| Shear Bonding Strength | ≥ 6.0 N/$mm^2$ @ 7 Days |
| Abrasion Resistance | Greater than concrete |
| Water Absorption | < 0.02 % |
| Coverage | The consumption is depends up on the size of tile & depth/width of the joint |

*The values obtained are from laboratory testing conditions and at 27 ± 2°C. On site tests may show slight variation due to site conditions and/or methods of testing/application. Follow company TDS to obtain best results.*

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## APPLICATION METHODS:

### 1. Surface Preparation

The joints of tiles must be clean, dry, sound & free of all contamination such as dirt, oil, grease & coatings etc. which hinder an adhesion.

### 2. Joint Preparation

Before commencing grouting, ensure the tile adhesive has set firmly. Remove tile spacers between tiles if they have been used, rake-out any excess adhesive and ensure the joints are free from dust and all other friable loose materials and contaminants likely to prevent the grout bonding. Dampen surface of tile making certain not to leave any standing water in the grout joints.

### 3. Mixing

Part A (resin paste) and B (thick liquid hardener) are packed in two separate containers, in predetermined mixing proportion by weight. The whole quantity of component B is added into component A. Mixing of the 2 components should take place for approx. 5 minutes, using a low revolution mixer (300 rpm). It is important to stir the mixture thoroughly near the sides and bottom of the container, to achieve uniform dispersion of the hardener. Do not over-mix; over mixing will cause the epoxy to flash set.

### 4. Application

ASCOPOXY - Grouting of the tile joints the resulting mixture is gradually poured in the dry and clean joints and it is spread using a rubber float or squeegee using a diagonal motion, ensuring that the grout is compacted into the entire depth of the joint.

i. Remove the excess grout from the surface of the tiles using the float or squeegee, ensuring that the grout in the joints is not dislodged.
ii. Allow the grout to firm up in the joints before cleaning the tiles with a wet sponge or cloth.
iii. Regularly rinse the sponge/cloth to ensure proper wiping of the grout haze on the tiles.
iv. Change the rinse water frequently to minimize epoxy residue.
v. Once the ASCOPOXY have been laid, they must NOT be trafficked upon or disturbed for a minimum of 24 hours at 25 $^{o}$C before being given another clean up with a cloth.
vi. If the joints are rough or uneven dress slightly with the help of soft cloth / sponge soaked in soap solution to make it smooth.
vii. The joints will harden within 30 – 45 minutes depends up on weather conditions. After 90 minutes the tile joints will be stiffened.
viii. To prevent pinholes and slumping of the epoxy grout, it is important to achieve 100 % fill coverage, with no voids in the joints.

## COVERAGE

$$\frac{\text{(Tile Length + Tile Width) x Tile thickness x Joint width x Specific gravity*}}{\text{(Tile Length + Joint Width) x (Tile Width + Joint Width)}} = \text{kg/m}^2$$

## 5. Curing

Optimum curing performance level is achieved after 24 hours of application.

## 6. Cleaning

Clean skin with soap and water. Tools and equipment should be cleaned with solvent thinners.

1. Health and Safety Guidelines

i. Use personal protective equipment (PPE) to use ASCOPOXY.

ii. If come in contact with eyes, immediately wash eyes with plenty of water and seek medical advice.

iii. Use of safety goggles, nose mask and hand gloves are recommended to protect eyes, skin and mouth while in use. (Material Safety Data Sheets are available through our company's representative or from our ASCOLITE's website)

## 6. Packaging

ASCOPOXY is available in packages of 1.0 kg and 5 kg in pre-determined mixing proportion by weight. The container of component B is built in the container of component A.

1 Shelf Life

i. 12 months from the date of production if stored in original, unopened packaging and in places protected from moisture, sun exposure and frost.