

TECHNICAL DATASHEET

ASCOPOXY III

Three Part, Hygienic & High Performance Epoxy Grout



PRODUCT INTRODUCTION

ASCOPOXY III is a solvent & stain free 3 part epoxy grout, offering a unique combination of features and benefits. It has high compressive, flexural and shear adhesion strength. It is resistant to several acids, alkalis, corrosive agents for concrete, cleaning agents, sea water and salted water. It has excellent workability for flooring applications & it can be easily washed with water before hardening. Over 30 color shades available to choose from color shades can also be customized depending on order size.

INDEX

RECOMMENDED APPLICATION	02
PRODUCT KEY FEATURES	02
TECHNICAL DATA	02
APPLICATION METHODS	03
SURFACE PREPARATION	03
JOINTS PREPARATION	03
MIXING	03
APPLICATION	03
COVERAGE	03
CLEANING	04
PACKAGING	04
SHELF LIFE	04

Version : 1 (NOV : 2022)

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

1. Ceramic
2. Porcelain
3. Vitrified floor & wall tile glass mosaics
4. Marble
5. Terrazzo
6. Natural stone
7. China mosaics
8. Wooden
9. SS/Metal Tiles

TECHNICAL PROPERTIES (Complies to EN 13888(RG),12003, & ANSI 118.3 & IS 17190:2020,ISO 13007 - 3

ASTM C 579, 496, 882, 881)

Appearance	Part A - Filler, Part B - Thin Liquid Resin , Part C - Thick Liquid Hardener
Solids	100 % by weight
Workability	45 ± 10 Minutes
Pot Life	65 ± 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
Pull Out Adhesion	≥ 1.5 N/mm ² (concrete Failure)
Flexural Strength	> 30 N/mm ² @ 7 Days
Liner Shrinkage	< 0.15
Abrasion Resistance	Greater than concrete
Water Absorption (30 Minutes)	< 0.05%
Specific Gravity	1.70 Kg/Liter

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.

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 & 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.

COVERAGE

$$\text{Coverage (Kg/ft}^2\text{)} = \frac{(L + W)}{(L \times W)} \times \frac{(T \times D \times S.G)}{10.7639}$$

L = Length of tile , W = Width of tile (mm), T = Thickness of tile (mm), D = Width of tile joints,

S.G. = Specific Gravity

4. Application

ASCOPOXY III-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 III** have been laid, they must NOT be trafficked upon or disturbed for a minimum of 24 hours at 25 °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.

5. Cleaning

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

6. Health and Safety Guidelines

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

7. Packaging

ASCOPOXY III is available in packages of 1 Kg & 5 Kg in pre-determined mixing proportion by weight. The container of component B is built in the container of component A.

8. Shelf Life

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

DISCLAIMER:

While the technical details & recommendations contained in this document and the related details given by the representatives of the company correspond to the best of our knowledge & experience, all the above information must in any case be considered as merely indicative and subject to confirmation. Users are recommended to conduct a product suitability test before it is used at full scale. In any case, the consumer alone is entirely liable for any consequences resulting from using the product. For the most up-to-date TDS, please visit our website at www.ascolite.in. Our company policy is one of ongoing R&D; therefore, we reserve the right to update this information without prior notice at any time. As the correct identification of the problems, the quality of other materials used, on-site environmental conditions and the workmanship on-site are factors beyond our control, there is no express or implied guarantee/warranty as to the results achieved. The company assumes no liability or consequential damage arising from the use of our products for unsatisfactory results. Site visits are not a supervisory responsibility wherever provided. Suggestions made either verbally or in writing by the company may be followed, modified or rejected by the owner, engineer or contractor, since they are solely responsible for carrying out procedures appropriate to a specific application.