

TECHNICAL DATASHEET

ASCOPOXY™

2 Part, Hygienic & High Performance Epoxy Grout



HYGIENIC &
DUST RESISTANT



EXCELLENT STAIN
RESISTANCE



UV & WEATHER
RESISTANT



PRODUCT DESCRIPTION

ASCOPOXY is an advanced solvent-free two-component epoxy resin grout. Renowned for its superior compressive, flexural and shear adhesion strength, exceptional durability and UV resistance. **ASCOPOXY** is the optimal choice for applications demanding chemical resistance. Our meticulously formulated **ASCOPOXY** is designed for diverse surfaces, including glazed tiles, mosaics, vitrified & fully vitrified tiles, ceramic tiles, industrial tiles, granites, marbles and other natural stones, excels in residential, commercial, industrial and hospitality settings, providing swift grouting solutions. **ASCOPOXY** demonstrates outstanding performance in wet environments, making it ideal for applications in bathrooms, water tanks and water bodies, representing the epitome of innovation and excellence.

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KEY FEATURES

- High compressive & tensile strength
- High flexural strength
- Excellent chemical resistant
- Hygienic & dust free
- Excellent water resistant
- UV & weather resistant
- Algae resistant
- Ideal for submerged conditions
- Easy to clean
- Solvent free
- Highly thixotropic
- Available in various colour shades

TECHNICAL INFORMATION

■ APPLICATION PROPERTIES (IS 17190: 2019)

PROPERTY: TEST METHOD	TYPICAL VALUES
Appearance	Part A: Coloured resin paste Part B: Liquid hardener
Specific gravity	1.70 kg/ℓ
Pot life @ 27 ± 2 °C	65 ± 10 minutes
Workability @ 27 ± 2 °C	45 ± 10 minutes
Initial setting time @ 27 ± 2 °C	≥ 150 minutes
Light foot traffic @ 27 ± 2 °C	24 hours
Compressive strength @ 7 days	≥ 45 N/mm ²
Flexural strength @ 7 days	≥ 30 N/mm ²
Shear bond strength	≥ 7 N/mm ²
Pull out adhesion	≥ 1.5 N/mm ²
Linear shrinkage @ 7 days	< 0.25%
Taber abrasion resistance (@1000 cycles)	< 250 mm ³
Water absorption	< 0.1 gm

VOC content	< 5 gm/kg
Grouting gap range	1.5 – 15 mm

APPLICATION COMPATIBILITY

■ AREAS OF APPLICATION

Floors & walls of internal & external areas, domestic, commercial & industrial applications, and wet areas like bathrooms, water tanks & water bodies.

■ SUITABLE SURFACE


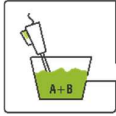
Ceramic tiles, glazed tiles, porcelain tiles, vitrified tiles, natural stones, glass mosaic, china mosaic, wooden planks/tiles and SS/metal sheets.

APPLICATION METHOD


SURFACE PREPARATION

- Before initiating the grouting process, ensure that the tiles or stones are securely positioned, and the adhesive bed is thoroughly dry.
- Remove any excess adhesive or mortar from the joint area.
- Before grouting, remove any spacers that may have been used.
- Refrain from using acid cleaners for tile or stone cleaning, instead, wash the joints with water or detergent.
- Ensure that grout joints are free from standing water, dirt, dust and any foreign substances.
- For rough textured tiles or stones, it is recommended to use masking tape for defining the grouting area to prevent grout from getting stuck in the texture of the tile or stone. After applying and smoothing the grout, remove the masking tape for clean lines and easier clean up.

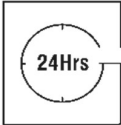
MIXING

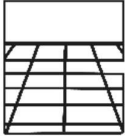
- Part A (coloured resin paste) and Part B (liquid hardener) are individually contained in two separate containers, pre-determined in mixing proportion by weight. 
- The entire quantity of Part B is to be mixed into Part A. 
- Thoroughly mix both components for approximately 5 minutes using a low-revolution mixer set at 300 rpm until a uniform colour & consistency is achieved.
- Avoid excessive mixing, as overdoing it may result in the epoxy undergoing a flash set.

APPLICATION

- Utilize a grout float or rubber squeegee to firmly compact the mixed grout into the joints, ensuring complete filling. 
- Maintain the float perpendicular to the surface and pull it diagonally at a 45° angle across the joints and tiles to prevent material displacement.
- Work in small sections to remove excess grout from the tile surface, ensuring not to exceed the grout's working time.
- The ideal temperature for application is between +10°C to +40°C.

POST-APPLICATION PROCEDURES

- Remove excess grout from tiles carefully, within 20 – 40 minutes after application (considering a temperature of) without disturbing the joints. 

- Allow the grout to firm up before cleaning with a wet sponge or cloth.
- Utilize a scrubber for rustic & matt finish tiles or a sponge/clean cloth for smooth tiles, dampened with clean water, to scrub the tile surface in a circular motion diagonally to the grout lines in both clock-wise and anti-clockwise directions.
- Gently finish the filled grout with a grout finishing tool/gloved finger along the line of grout.
- After 12 – 24 hours, clean the tile surface with water and soap solution to eliminate any remaining stains. 
- Clean tools and containers with clean water while the grout is still in its fresh state.

PACKAGING

- 1, 5 & 20 kg



COVERAGE

$$\frac{(L + B) \times W \times D \times S.G.}{L \times B} = \text{kg/m}^2$$

L = Length of tile (mm)


B = Breadth of tile (mm)

W = Width of joint (mm)

D = Depth of joint (mm)

S.G. = Specific gravity of the grout

SHELF LIFE

- ASCOPOXY, when uponened, can be stored above floor level in a cool dry place for a duration of up to 12 months. 

HEALTH & SAFETY GUIDELINES

- Take preventive measures to keep children away from this product.
- Wear appropriate safety gear, such as gloves and face or eye protection during the installation.
- If the adhesive comes in contact with your eyes or skin, immediately rinse them well with lots of clean water and seek medical advice.
- Only qualified professional applicators or contractors may use this product.
- For additional information, please consult the relevant material safety data sheet, which is available upon request.



TOOLS & ACCESSORIES

GROUTING TOOLS



BUCKET



MIXER



GROUT SPREADER



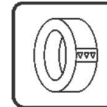
SPONGE



PUTTY KNIFE



AIR BLOWER



MASKING TAPE



RUBBER SQUEEGEE

DISCLAIMER:

This technical data sheet supersedes all previous versions from the immediate effect. The company guarantees its products against any manufacturing defects. The user should determine the product's usability for its intended use. Since the company has no control over site conditions and the installation procedures, the company would not be responsible under any circumstances for any loss, damage or liability from incorrect usage. For the products on which the company is offering a warranty, please refer to the warranty document to know the entire terms and conditions. The same can be availed on request or from the company website. All orders are accepted subject to our prevailing terms of sales and delivery. 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. Our company maintains an active research and development policy, allowing us to continuously enhance our products. As a result, we reserve the right to revise this information at any time without prior notice. For optimal results, we recommend this product be installed by a qualified professional. By using this product, users acknowledge and agree to the terms and conditions outlined in this disclaimer.