

TECHNICAL DATA SHEET



RITEPOXY® SBA (Spot Bonding Epoxy Adhesive)

(Ref. SIPL / TDS / SBA / 0224 / R-01)

❖ Product Description

RITEPOXY® SBA (Spot Bonding Epoxy Adhesive) is a two component, rapid setting, high strength epoxy adhesive, it is designed for the spot bonding of all types of tiles, natural stone and synthetic / engineered stone for installations on vertical surfaces. RITEPOXY® SBA Epoxy Adhesive maintains its non-sag consistency at high temperatures.

❖ Special Features

- **IS :15477** : Classified as **TYPE-5T** Adhesive
- **EN 12004 / ISO 13007**: Classified as **R2T** Adhesive
- Fast curing time for efficient installation within 40 to 60 minutes setting time.
- Non-sag properties on vertical surfaces
- Excellent adhesion and bond strength on vertical surfaces
- Faster productivity due to its ease of application and rapid curing
- High durability and resistance to moisture, chemicals, and temperature variations.



❖ Application

- Wall tiling in residential and commercial spaces
- Facades and cladding with marbles and granites
- Interior and exterior applications
- Bathroom and kitchen installations
- Public areas and infrastructures

❖ Advantages

- RITEPOXY[®]SBA gives an economical solution with less material consumption.
- Permanent bond with various substrates including metals, drywalls & plywood.
- Excellent withstanding capabilities towards shocks and vibrations.
- Faster productivity due to its ease of application and rapid curing.

❖ Suitable Substrates

- Concrete and cementitious surfaces
- Cement backer boards
- Masonry surfaces
- Existing tile or stone surfaces (with proper preparation)

❖ Coverage

- The coverage of RITEPOXY[®]SBA may vary depending on the size and thickness of the tiles or stones being installed. As a general guideline, the approximate coverage is 8.5 - 9.5 sq. ft/kg for spot bonding applications with 6mm bed thickness.

❖ Packing

- Available in **1 Kg** Box (Resin + Hardener)

❖ Shelf Life

- Factory sealed box are best before 24 months from the date of manufacturing in unopened condition stored cool & dry place.

❖ How to Apply

- Ensure that the substrate is clean, dry, and free from any contaminants that may affect adhesion.
- Mix the two components of RITEPOXY SBA (resin and hardener) in the recommended ratio as per the instructions provided.
- Thoroughly mix the components using a low-speed drill and a suitable mixing paddle until a homogenous mixture is achieved.
- Carry the application of the SBA with putty knife or margin trowel.
- Apply immediately and distribute evenly on the back of the tile/ stone. Apply for a minimum of 5 areas on the tile, one on each corner and at the centre of the tile/stone.
- Allow the adhesive to cure and achieve full strength as per the specified curing time.

❖ Notes on Application / Limitations

- Maintain a minimum thickness of 3mm.
- Spot bonding applications may require additional mechanical support until the adhesive cures completely.
- Avoid excessive adhesive thickness to prevent prolonged curing times and potential bonding issues.
- Follow standard tiling practices and guidelines for best results.

❖ Technical Data

General Properties

Testing Parameters	Result
Appearance / Colour	Part A : Cream White Viscous Paste / Part B : Slightly Reddish Viscous Paste
Mixing Ratio A:B (By Weight)	1:1
Mix Density	1.75 - 1.85 g/cc
Consistency	Thick Paste
Set Time @ 25°	3 - 4 hours
Pot Time @ 25°	25 - 35 min

Technical Performance Data according to IS 15477 2019 Type-5

Test Parameters	Test Method	Results
Tensile Adhesion Strength at Dry Conditions	Annex A (Clause 5.1)	13 - 15 N/mm ²
Shear Adhesion Strength at Dry Conditions	Annex B (Clause 5.2)	10.2 - 12.4 N/mm ²
Heat Ageing Conditions	Annex B (Clause 5.2)	7 - 9 N/mm ²
Vertical Slip	Annex E (Clause 5.5)	0.10 - 0.30 mm

NOTE: Substrate failure noticed in all the cases **RITEPOXY SBA** conforms to the requirements of IS 15477, Designation TYPE 5T

Technical Performance Data according to EN 12004 ISO 13007

Test Parameters	Requirement	Results
7-day cure Shear adhesion strength	ISO 13007-2 4.3.4 (EN 12003-7.3)	25 - 30 N/mm ²
Shear adhesion strength after water immersion	ISO 13007-2 4.3.5 (EN 12003-7.4)	20 - 25 N/mm ²
Shear adhesion strength after thermal shock	ISO 13007-2 4.3.8 (EN 1346)	18 - 30 N/mm ²
Vertical slip resistance	ISO 13007-2 4.2	0.10 - 0.30 mm

Standards Followed

- IS 15477: TYPE 5T
- EN 12004 / ISO 13007 as R2T


Precautions & Limitations

- Wear appropriate personal protective equipment (PPE) during handling and application.
- Avoid contact with skin and eyes. In case of contact, rinse immediately with plenty of water and seek medical advice if irritation persists.
- Keep out of reach of children and pets.
- Store the product in a cool, dry place away from direct sunlight and sources of heat.
- Follow the safety instructions and guidelines provided in the product's Material Safety Data Sheet (MSDS).

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The information given in this TDS is for general guidance only. Specific instruction for various site conditions can be provided on demand. The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trails to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, qualities of other materials used and on site workmanship are factors beyond our control, there are no expressed or implied guarantee/warranty as to the results obtained. The company does not assume any liability or any consequential damage for unsatisfactory results, arising from the use of our products.