

TRI-PRIME SB

Solvent-based epoxy primer.

Description

TRI-PRIME SB is a two-component epoxy primer with selective solvents which provides a high performance primer with a excellent penetration into concrete substrates.

TRI-PRIME SB reacts in situ at ambient temperature for wall and floor systems.



Standard compliance

- BS 8204-6
- ASTM D4541

Typical uses

TRI-PRIME SB is used as primer for different areas such as:

- Primer for epoxy and polyurethane flooring coat.
- A primer for joint sealant.
- Sealing for hairline cracks.
- Surface hardening of concrete surfaces.
- Anti -dust treatment for concrete surfaces.

Advantages

- Excellent adhesion to most substrates. .
- Low viscosity.
- Easy to apply using brush, roller, squeegee, airless sprays.
- Colorless.
- High mechanical strength.
- Good penetration properties.

Technical properties @°25c

| | |
|------------------------------|--|
| Color | Transparent |
| Solid Content (by weight) | 45 ± 2 % |
| Density | 0.95 ± 0.02 kg/L |
| Mixing ratio, A: B by weight | 2.33:1 |
| Pot life | 4 hours. (decreases at higher temperatures) |
| Initial setting time | 2 hours |
| Final setting time | 24 hours |
| Full hardness | 7 days |
| Re-coating time | 8 – 14 hours (depending on weather and DFT conditions) |
| Min. Application temperature | 10° C |
| Bond strength (concrete) | 1.53 N / mm ² |
| Bond strength (steel) | 2.84 N / mm ² |

Recommended systems for TRI-PRIME SB :

| System | Type of system | Tri-Chem's products | Theoretical DFT |
|-----------|--|---------------------|------------------------|
| System I | High build coating system | TRI-PRIME SB | Depending on thickness |
| | | TRI-FLOOR SB | |
| System II | High build coating system | TRI-PRIME SB | Depending on thickness |
| | | TRI-FLOOR SF | |
| System IV | special High build coating system (UV resistance system) | TRI-PRIME SB | Depending on thickness |
| | | TRI-FLOOR SB | |
| | | TRI-COAT PU | |

For more systems and methods of application, contact our technical office

Over coating and waiting

- Waiting time for the epoxy primer coat before applying **TRI-PRIME SB** :

| Temperature | Minimum | Maximum |
|-------------|-----------|------------|
| 10°C | ≈ 6 hours | ≈ 18 hours |
| 20 °C | ≈ 5 hours | ≈ 15 hours |
| 30 °C | ≈ 4 hours | ≈ 12 hours |

Precautions for applications : (according to BS 8204-6)

- A minimum of Grade RC25 concrete of BS 8500-2:2006 should be used.
- The surface tensile strength should exceed 1.5 N/mm.
- The surface moisture content should not exceed 4%.
- On the smooth surface (fair-face) pores should be treated using manual or mechanical methodology.
- The equipment used in this application includes brush, roller and spray (depending on thickness requirements).
- The concrete age should be 28 days at least.

Surface preparation

- Surface preparation of the base is the most vital aspect of flooring application so the age of concrete is a very important factor in this process.
- After surface preparation, all loose debris and dust should be removed using vacuum equipment.
- It is essential that all surface contamination, e.g. oil, paint and rubber, should be removed and adequate mechanical preparation carried out to achieve a sound surface with cleanly exposed aggregate.
- Any weak or suspect concrete or repair patches should be removed. When mechanical preparation is complete, all dust and debris should be removed using vacuum equipment.



Factory & Head Office:

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Mixing and Application

- Added Comp (B) onto Comp (A) and mix well by using suitable paddle or manually for 2-3 min until homogeneous and uniform consistency is achieved.
- A primer that is appropriate for the nature and moisture content of the substrate should be selected.
- After mixing the components of the primer together, it should be applied as soon as possible, within its working life, to the prepared substrate.
- The primer should be applied evenly with a stiff brush or "lamb's-wool" roller.

For more details review the Tri-chem's application methodology

Coverage

- 5-7 m² / kg (depending on surface conditions).

Package

- **TRI-PRIME SB** :- Group (A+B): 2.5 Kg, 12.5.

Shelf life

- 24 months in good storage conditions .

Storage conditions

- Store the material in a cool, dry and covered place.
- Temperature should not exceed 35 oC.
- Do not expose the pails to direct sunlight and keep away from all sources of heat.

Sustainability and environmental accountability

• TRI-CHEM's Environmental sustainability is the accountability to conserve natural resources and protect global ecosystems to support health and well-being for this a more positive approach is that accountability guides the actions of power-holders towards more socially and environmentally sustainable results.

Technical support

- For any technical support, please contact TRI-CHEM technical office or representatives.

Health and safety responsibility

- Workplace health and safety is all about sensibly managing risks to protect TRI-CHEM's workers and business.
- ISO 45001 is a systematic health and safety management is characterized by strong leadership involving managers, workers, suppliers, contractors and customers and also health and safety management is an essential part of the movement towards sustainable development.
- Spillages should be washed down immediately.
- PPE in accordance with the health and safety rules should be used during the materials application.
- For irritant effects of the non-cured material, avoid contact with skin and eyes during storage and application.

Institutional Excellence and quality performance

- Institutional excellence in TRI-CHEM refers to achieving high levels of performance, quality and effectiveness in all aspects of TRI-CHEM company's work, it involves a systematic and continuous effort to improve an organization's performance by applying best practices, innovative approaches and evidence-based strategies, institutional excellence spans various areas, such as training , research, innovation, community engagement, governance, management and sustainability, and involves setting high standards, measuring performance against these standards and continuously improving performance to meet or exceed these standards, excellence in TRI-CHEM also includes a culture of continuous improvement and learning, where everyone in the organization is committed to achieving the organization's goals, working together to find solutions to challenges and opportunities, and requires a collaborative approach that includes all stakeholders.
- All products originating from TRI-CHEM facility are manufactured under a quality management system independently certified to conform the requirements of the quality standards (ISO 9001:2015).

Disclaimer

- While TRI-CHEM guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control.
- TRI-CHEM is recommended to verify with TRI-CHEM that the product is suitable for the intended use, and that this data sheet version is the latest one.
- TRI-CHEM may modify it without prior notice and technical characteristics are listed for guidance only.
- Any specification, recommendation or information mentioned in this product data sheet is (to TRI-CHEM's best knowledge) true and reliable.
- However, because TRI-CHEM has no influence on the application method of these products and the care taken, the company cannot accept any liability arising from the use of its products. TRI-CHEM's warranty is therefore limited to the quality of the materials supplied which are guaranteed against defective materials.

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