

## **TRI-FLOOR SB**

**Solvated based great performance epoxy coating.**

### **Description**

**TRI-FLOOR SB** is a two component, solvent-base, protective floor and wall coating based on epoxy resin, pigments and specially selected curing agent and designed for continuous protection against chemical attack and abrasion resistance.

It is available in standard colors. Special colors can be produced on request.



### **Standard compliance**

- BS 8204-6 (Type 2)
- ASTM C267
- ASTM D4060
- ASTM C321

### **Typical uses**

**TRI-FLOOR SB** could be used to provide a hard wearing easily cleaned and attractive floor Coating in areas where abrasion resistance and chemical resistance is required such as:

- Tanks and silos.
- Production assembly areas.
- Workshops.
- Kitchen and showrooms.
- Bottling plants.
- Dairies and dye works.
- Garages.
- Production areas.

### **Advantages**

- Smooth and high build floor coating.
- Excellent adhesion to most substrates.
- Wear and abrasion resistance.
- High mechanical strengths.
- Highly Durable.
- Suitable for the Middle East conditions.

**Technical Data @°25c**

Color	White - gray (other required colors)
Solid content	76 ± 2%
Density	1.4 ± 0.05 kg/l
Mixing ratio A:B	3:1
Pot life	2 h
Int. curing time	3 h
Final curing time	24 h
Full hardness	7 D
Recoating time	8-12 h
Min application. Temp.	10 °C
Abrasion resistance	85.9 mg loss in weight
Adhesion strength	1.37 N/mm <sup>2</sup> (concrete failure)

**Chemical Resistance .**

Chemical Resistance			
Hydro chloride	10 %	30 %	No effect
Sulfuric acid	10 %	30 %	No effect on 10 % - Color changed on 30 %
Acetic acid	10 %		No effect
Sodium hydroxide	50 %		No effect on 10 % - Color changed on 30 %
Potassium hydroxide	50 %		No effect
Sodium chloride	50 %		No effect

**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.

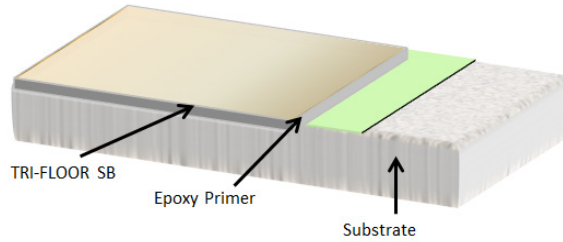


**Factory & Head Office:**

6 October City - 4th Industrial Zone - Al Oula Industrial Zone Plot No.: 14  
 Tel.: (002) 011 195 48267 - Sales: (002) 010 007 88817 - (002) 011 184 87597  
 Technical Support Call : (002) 011 184 87880 - Email: sales@tichem-eg.com  
 www.trichem-eg.com



**Recommended systems for TRI-FLOOR 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 50	Depending on thickness
		TRI-FLOOR SB	
System III	Anti-slip coating system	TRI-PRIME SB	Depending on thickness
		TRI-FLOOR SB	
		Filler	
		TRI-FLOOR SB	
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 **TRI-PRIME SB** coat before applying **TRI-FLOOR SB**:

Temperature	waiting time
10°C	≈ 24 hours
20 °C	≈ 12 hours
30 °C	≈ 8 hours

- Waiting time for each coat of **TRI-FLOOR SB**:

Temperature	waiting time
10°C	≈ 30 hours
20 °C	≈ 24 hours
30 °C	≈ 16 hours

## Directions for use

### 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 dirt should be removed by 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 by vacuum equipment.

### Mixing

- All products should be mixed mechanically.
- Some flow-applied flooring may be mixed using a heavy-duty slow speed drill (200 rpm to 500 rpm) drill fitted with a mixing paddle.

### Primer process

- 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 "lambswool" roller.

### Coating application:

- Coatings should be applied by brush or roller in two or more coats.
- The first coat should be allowed to cure until it is just tack-free before the second coat is applied.
- Exceeding this time between as recommended waiting time table in this TDS.

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

### Coverage

- 3 m<sup>2</sup> / kg -at 100 microns D.F.T per layer

### Package

- **TRI-FLOOR SB** :- Group (A+B): 4Kg, 16 kg.

### Cleaning

- all tools and equipment should be cleaned immediately after use with thinner.

### Shelf life

- 24 months in good storage conditions .



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## Storage conditions

- Store the material in a cool, dry and covered place.
- Temperature should not exceed 35 °C.
- 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.

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- 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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