

TRI- FLOOR SL

Self-leveling Epoxy Flooring

Description

TRI- FLOOR SL is a three components solvent-free self leveling epoxy mortar based on a combination of specially selected fillers and high strength epoxy resins, that when mixed Provides 2-4 mm. Epoxy resin floor topping with a unique laying properties.

TRI- FLOOR SL is supplied in per-weighted packs, part (A),part (B) and filler(c) that are ready to mix and to apply



Standard compliance

The product is certified by (National Research Centre)

- ASTM D4060
- ASTM C882
- ASTM C267
- ASTM C1338

Typical uses

TRI- FLOOR SL used in areas subject to pedestrian and wheeled traffic, such as :-

- Laboratories.
- Food, Chemical and pharmaceutical industries.
- Kitchens.
- Schools.
- Electric Plants.
- Hospitals.
- Show rooms.
- Offices.
- Canteens.
- Production areas Shops & Supermarkets Garages.
- Warehouses & Stores.
- And any area where a hard wearing, hygienic, dust free and chemical resistance is required.

Advantages

- Easy to mix and to apply.
- Solvent-free
- Does not promote the growth of microorganisms.
- Excellent adhesion to concrete.
- High chemical resistance Eliminates bacterial growth.
- Durable, dense.
- Impervious, seamless floor Suitable for the Middle East conditions.
- Smooth surface.
- Easy to clean.

Chemical Resistance

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

Technical Data @°25c

Color	Grey (other required colors)
Solid Content (by weight)	100%
Density	1.850± 0.10 kg/L
Mixing ratio, A: B: C by weight	2A: 1B: 3C ((1 epoxy): 1 filler)(pk 14 kg) 2A : 1B : 3.9C (1 epoxy : 1.285 filler) (pk 16 kg)
Pot life	30 -45 min. (decreases at higher temperatures)
Initial setting time	8 hours
Final setting time	24 hours
Full hardness	7 days
Min. Application temperature	10° C
Rate of use (theoretical)	3 -4 kg /m ² / 2 mm (depending on surface conditions)
Adhesion strength to concrete ASTM C882	2.18 N/mm ² (concrete failure)
Adhesion strength to steel ASTM C882	3.18 N/mm ²
Abrasion resistance	0.11 mm loss in thickness
Compressive strength (ASTM -579)	60.51 N/mm ² after 7 days
Flexural strength (ASTM -C 293)	25.71 N/mm ² after 7 days
Tensile strength (ASTM D-638)	16.14 N/mm ² after 7 days

Directions for use

Surfaces Preparation

All surfaces must be clean, dry and free from oil, grease and loosely adhering particles. Cement laitance should be removed mechanically.

Priming

The prepared surface should be primed with **Tri-Prime** (see separate data sheet).

Mix two components of the primer and then apply with roller or stiff brush.

If the substrate is too porous, two coats of the primer are recommended.

Mixing

TRI- FLOOR SL is supplied in part A + Part B + Part C. Mix part A and Part B pack in the mixing container using a slow speed electric drill. Add part C slowly while mixing.

Mix for 5 minutes until homogeneous consistency is achieved.

Application

Pour the mixed materials onto the prepared and primed substrate. Spread the required thickness using a toothed trowel or comb.

After laying the materials use a spiked roller to distribute evenly and remove trapped air.

For more information , review Tri-chem's application methodology.

Coverage

3 -4 kg /m² / 2 mm (depending on surface conditions)

Package

Tri -Floor SL : is available in pk 14 kg , 16 kg.

Shelf Life

24months in unopened condition if stored as Per the recommendations.
Exposure to high temperature and humidity will result in considerable deterioration of the product and reduce its shelf life.

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.

Cleaning

Clean all tools and equipment immediately after use with **thinner**.

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.

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.



Factory & Head Office:

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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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