

# TRI-PRIMER 1010

**Multi-purpose Epoxy primer .**

## Description

**TRI-PRIME 1010** is a two-component, epoxy primer, based on solvent-free epoxy resin , curing agent and high selective chemical additives. It provides a high quality primer layers before the application top coat of epoxy or polyurethane coatings on the concrete surfaces and to use as repairing floor cracks.



## Standard compliance

- BS 8204-6
- ASTM D4541

## Typical uses

**TRI-PRIME 1010** is specially used as:

- Primer for epoxy and polyurethane flooring systems.
- Priming concrete and cement substrates.
- Binder for epoxy self-leveling and screed mortar.
- Sealing and repairing for hair cracks.
- Surface hardening for concrete surfaces.

## Advantages

- Give a rough surface to promote the top coat adhesion .
- Excellent adhesion to most substrates.
- Multi-purpose use.
- Economical and easily applied .

## Technical properties @°25c

Color	Transparent after curing
Solid Content (by weight)	98 ± 1 %
Density	1.4± 0.1 kg/L
Mixing ratio, A: B by weight	4:1
Pot life	40 -50 min. (decreases at higher temperatures)
Initial setting time	8 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
Viscosity	15-20 sec
Bond strength (concrete)	1.24 N / mm <sup>2</sup>
Bond strength (steel)	2.31 N / mm <sup>2</sup>

**Recommended systems for TRI-PRIME 1010**

System	Type of system	Tri-Chem's products	Theoretical DFT
System I	High build coating system	TRI-PRIME 1010	Depending on thickness
		TRI-FLOOR 1010	
System II	High build coating system	TRI-PRIME 1010	Depending on thickness
		TRI-FLOOR SF	
System III	Anti-slip coating system	TRI-PRIME 1010	Depending on thickness
		TRI-FLOOR 1010	
		Filler	
		TRI-FLOOR 1010	
System IV	Multi-layer resin screed flooring system	TRI-PRIME 1010	Depending on thickness
		TRI-FLOOR SCREED	
		TRI-FLOOR 1010	
System V	special High build coating system (UV resistance system)	TRI-PRIME 1010	Depending on thickness
		TRI-FLOOR 1010	
		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 1010** :

Temperature	Minimum	Maximum
10°C	≈ 24 hours	≈ 72 hours
20 °C	≈ 12 hours	≈ 48 hours
30 °C	≈ 8 hours	≈ 24 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.



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## Surface preparation

- Surface preparation of the base is the most vital aspect of flooring applications 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 is 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

- The entire contents of the part B should be poured into the part A container and the two materials mixed thoroughly for about 2 to 3 minutes.

## Application 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 "lamb's-wool" roller.
- **Note:** that in case of coating or self-leveling systems the primer should be cured as recommended time schedule for recoating but in case of mortar the primer should be tacky for optimal results

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

## Coverage

- 4-5 m<sup>2</sup> / kg - 100 microns D.F.T per layer.

## Package

- **TRI-PRIME 1010** :- Group (A+B):5Kg, 20 kg.

## 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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