

## **TRI-ACRY PROOF**

### **Elastomeric acrylic waterproofing & protective coating**

#### **Description**

**TRI-ACRY PROOF** is a single component, elastomeric, acrylic waterproofing and protective coating so upon curing forms a tough, flexible and durable coating which is resistant to UV and other weathering agents.

**TRI-ACRY PROOF** is also used to protect exposed concrete structures against carbonation and chloride ion diffusion.



#### **Standard compliance**

The product is certified by National Research Center.

- ASTM G 154
- ASTM D4587
- ASTM C 1305
- ASTM D 412
- ASTM C 307

#### **Typical uses**

**TRI-ACRY PROOF** Used as waterproofing and protective coating for the following structures:

- Metal profile roofs.
- Sloped concrete roofs.
- Anti-carbonation coating in car park decks.
- Protective coating on polyurethane foam insulation.
- Protective coating on underpasses & concrete bridge decks.

#### **Advantages**

- Good abrasion resistance.
- Flexible with similar expansion similar to concrete.
- Water proof-suitable for water retaining structures.
- Form a flexible film can bridge the hair crack of concrete.
- Covers honeycombed and pitted poured concrete effectively.
- Suitable for water retaining structures after full curing and subject to project requirements.

**Technical properties @°25c**

Color	White - Grey
Solid Content by weight	63 ±2%
Specific Gravity	1.3 ±0.1kg/L
Tensile Strength	> 1 N/mm <sup>2</sup>
Crack bridging ability	>0.5 mm
Toxicity	Non Toxic
Elongation at Break	>500%
Hydrostatic Pressure @ 5 bar (50m)	No leakage
Service temp	5 to 70 °C

**Recommended water-proofing systems .**

Waterproofing system I	ACRYPROOF	Waterproofing Coat 1
	ACRYPROOF	Waterproofing Coat 2
Waterproofing system II	TRI- SEAL 307	Waterproofing Coat 1
	TRI- SEAL 307	Waterproofing Coat 2
	ACRYPROOF	Finish Coat
Waterproofing system III	ACRYPROOF	Waterproofing Coat 1
	TRI- FLEZ 70	non-woven needle punched polypropylene
	ACRYPROOF	Waterproofing Coat 2

**Directions for use**

**Concrete Surface**

- Clean the surfaces which shall receive the coating of all dust, dirt, moss, oil and grease loose particles, cement laitance and all other deleterious materials which will affect the adhesion of the coating with the substrate.
- Cracks and potholes shall be repaired with Concrete repair mortar.
- **TRI-ACRY PROOF** shall be diluted 1 : 1 with water and applied as sealer coat on the concrete surface to seal the pores and stabilize the surface
- The sealer also functions as an adhesion promoter for the top coats.

**Metal surface**

- Clean the surface of all rust scales. This can be achieved by wire brushing or grit blasting. Sealer

**Application**

- Mix the contents of the pail prior to the application to remove any sediment.
- **TRI-ACRY PROOF** Can be applied by soft bristled brush, roller or an airless spray.
- Dilute **TRI-ACRY PROOF** with 10% of water then apply the first coat
- The second coat should be applied at right angle to the first coat.
- For improved strength and flexibility, embed a **TRI- FLEZ 70** while the first coat is still wet on all corner joints, fillets and pipe penetration joints or for fully surface. Allow the coating to cure fully for 72 hours to achieve its full properties.



### Coverage

- **TRI-ACRY PROOF** As protective coating : 0.30 - 0.35 kg / m<sup>2</sup> As water proofing : 1.25 - 1.50 kg / m<sup>2</sup>

### Package

- **TRI-ACRY PROOF** : pack 20 kg .

### Shelf life

- 12 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.

### Cleaning

- All tools should be cleaned with water immediately after use.
- Hardened material can be removed mechanically.

### Technical support

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

### 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.

### 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

**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



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).

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### 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.
- 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.
- TRI-CHEM may modify it without prior notice and technical characteristics are listed for guidance only.

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