

TRI-SEAL 300

One component cementitious water proofing compound

Description

TRI-SEAL 300 is a single component cementitious water proofing polymer modified with specially re-dispersible polymer powder and quartz fillers which supplied in powder form to be mixed only with water to obtain a thick slurry consistency.

TRI-SEAL 300 worked against direct and indirect high water pressure and It is firmly adheres on smooth and rough surfaces.



Standard compliance

The product is certified by National Organization for Potable water & Sanitary Drainage.

The product is certified by National Research Center.

- ASTM C307
- ASTM G154 / ASTM G151
- ASTM C580
- DIN 1048
- ASTM C321
- BS 6920

Typical uses

- Internal waterproofing for drinking water tanks, desalination units, and water reservoirs.
- Provides durable protection for concrete exposed to chemical or saline environments such as wastewater treatment plants, coastal areas, and industrial facilities.
- Suitable for underground and elevated water tanks, basements, foundations, and retaining walls.
- Ideal for machine foundations, electrical rooms, bathrooms, kitchens, and other wet areas to prevent moisture ingress and corrosion.
- Excellent for sealing micro-cracks, honeycombs, and construction joints .
- Applicable for dams, bridges, swimming pools, and other water-retaining or moisture-exposed concrete structures.
- Effective in oil containment units, sewage treatment plants, damp/drying rooms, and concrete floors below tile finishes.

Advantages

- Exceptional resistance to both positive and negative hydrostatic pressure.
- Outstanding resistance to sulfates, chlorides, salts, and various industrial chemicals.
- Forms a strong bond with concrete substrates, acting as an integral part of the structure.
- Provides durable and long-term waterproofing protection under harsh conditions.
- Suitable as a base coat prior to paints, bituminous, or membrane systems.
- Environmentally friendly, solvent-free, non-toxic, and safe for potable water contact.
- Easy application by brush or spray with extended working time.
- Compatible with dual waterproofing systems for enhanced protection.
- Long-term durability and consistent performance in aggressive environments.

Technical properties @°25c

Color	Grey - white
Density	1.7 ± 0.1 kg / L
Compressive strength ASTM C307	26 N / mm ²
Flexural strength ASTM C580	8 N / mm ²
Bonding strength to concrete ASTM C321	2.0 N / mm ²
Positive hydrostatic water pressure (72hrs under 4bar) 1%NaCl	PASS
Effect of UV / 200 H 23C°	PASS
Chemical resistance	
CL	No effect
NaOH 40 gm / L °C	No effect
NaOH (So4)212 H2o @ 23 °C	No effect
NaOH (So4)212 H2o @ 60 °C	No effect

Recommended water-proofing systems .

Waterproofing system I	TRI-SEAL 300	Waterproofing Coat 1
	TRI-SEAL 300	Waterproofing Coat 2
Waterproofing system II	TRI-SEAL 300	Waterproofing Coat 1
	TRI-SEAL 300	Waterproofing Coat 2
	ACRYPROOF	Finish Coat
Waterproofing system III	TRI-SEAL 300	Waterproofing Coat 1
	TRI- FLEZ 70	non-woven needle punched polypropylene
	TRI-SEAL 300	Waterproofing Coat 2

Directions for use
Surface preparation

• All surfaces should be clean, dry and free from dust and loose materials in order to achieve Maximum adhesion between a floor coating and substrate.

Mixing

- Mix the Tri-Seal 300 only with water at ratio 5:1 by weight or 3:1 by volume to obtain the desired consistency (thick slurry)
- Damping the dry surfaces with clean water just prior to applying the slurry.

Application

- Apply the Tri-Seal 300 slurry with a cement brush in two or more coats depending on water pressure.
- Allow the first coat to dry and saturate the surface with water prior to applying the Second coat.

Curing

- After application, the coating must be protected from rapid drying caused by high temperature, wind, or direct sunlight.
- Premature drying may lead to surface cracking or reduced adhesion.

- Curing should be carried out by maintaining a damp environment for at least 24 hours, either by light water misting or covering with polyethylene sheets to retain surface moisture.
- Avoid direct water pressure or flooding during this period.

Protection

- Once cured, the coating shall be protected against mechanical impact, abrasion, or long-term exposure to UV radiation.
- If the system will remain externally exposed (e.g. roofs, balconies, open tanks), apply a protective screed, UV-resistant coating, or tile finish to prevent carbonation and spalling risks over time.
- Before back filling or applying tile adhesive, ensure a minimum of 3 days curing and check the integrity of the waterproof layer.

Coverage

- 1.25 kg / m² - per coat

Package

- **TRI-SEAL 300** : Package 25 Kg Bags

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 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.
- 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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