

## TRI- SEAL 307

### Flexible Protective and Waterproofing coat

#### Description

**Tri-Seal 307** comprises a two component polymer modified cementitious coating supplied in ready powder form to mix kits

**Tri-Seal 307** can be simply applied by stiff brush, roller spray or trowel to obtain the desired texture.

**Tri-Seal 307** is a Polymer modified protective and waterproofing coating.

The coating shall comprise specially selected cements , graded, hard wearing aggregates and additives supplied in powder form together with a liquid component of blended polymers and wetting agents .

The total dry film thickness of the coating shall be not less than 2 mm and shall be capable of providing resistance to wear and weather, diesel oil, gasoline, chlorides de-icing salts, effluents. It shall exhibit positive water pressure resistance up to 20 meter head, and negative water pressure resistance up to 10 meter dependent on coating thickness.

**Tri-Seal 307** has been tested in accordance to: ASTM (C321/C307/C580)BS 6920

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

**The product is certified by National Research Center.**



#### Design criteria

The coating should be applied in two coats to achieve a total dry film thickness of not less than 2mm.

Areas subjected to light foot traffic should receive minimum 2mm thickness and an additional 2mm coating should be applied to areas of moderate to heavy pedestrian conditions.

#### Uses

**Tri-Seal 307** To protect atmospherically exposed reinforced concrete structures from attack chloride ions, oxygen and as a waterproofing.

The product is also suitable to protect other cementitious substrates And masonry for new and existing structures.

**Tri-Seal 307** is used as waterproofing coat in the following structures:

- Sewage concrete tanks.
- Swimming pools.
- Building basements.
- Bridges.
- Water Retaining tanks.

#### 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@trichem-eg.com

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#### Advantages

- Form a flexible film can bridge the hair crack of concrete.
- Can be used as positive and negative water proofing coat.
- Water proof — suitable for water retaining structures.
- Flexible with similar expansion similar to concrete .
- Covers honeycombed and pitted poured concrete effectively.
- Good abrasion resistance.
- Waterproof coating for water tanks and reservoirs.

#### Technical Data @°25c

DISCRETIONS	VALUE
Color	Grey and white
Application Temperature	Not less than 5 °C
Tensile Strength ASTM C307	3.75 N/mm <sup>2</sup>
Flexural Strength ASTM C 580	12 N/mm <sup>2</sup>
Bond Strength ASTM C 321	2.4 N/mm <sup>2</sup> CONCRETE FAILURE
Compressive strength ASTM C307	4.44 MPA
Hydrostatic pressure	Positive 2 bar      Negative 1 bar
<b>Chemical resistance</b>	
CL	No effect
NaOH 40 gm / L	No effect
NaOH (SO <sub>4</sub> ) <sub>2</sub> 12 H <sub>2</sub> O @ 23 °C	No effect
NaOH (SO <sub>4</sub> ) <sub>2</sub> 12 H <sub>2</sub> O @ 60 °C	No effect
Rate of use (theoretical)	25 kg / 10 -15 m <sup>2</sup>

#### Directions for use

##### Surface preparation

All surfaces should be dry and free from contamination such as oil, grease, loose particles Decayed matter, laitance, all traces of mould release and curing compound.

This is best achieved by lightly grit-blasting the surface.

It is essential that all surfaces to be treated or be soaked with clean water prior to application

##### Mixing

Pour the liquid part in a bucket then add the powder gradually and mix with suitable Electrical mixer till getting suitable consistency.

Small quantities can be mixed by hand in a bucket.

Large quantities can be mixed by Mixer.

##### Application

While the surface is still damp apply the mixed product to the well prepared Surface of concrete or masonry by brush, broom or spray. Apply two Coats as required Perpendicular.

##### Curing

In severe hot temperature and/or wind, protective shielding should be apply. Protect newly applied product against direct sunlight, wind, rain and frost.



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#### **Cleaning**

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

#### **Package**

Pack = 25 Kg consists of :- Powder =20 Kg Liquid = 5 Kg

#### **Shelf Life**

12 months if kept in a dry store in the original unopened packs.

#### **Storage**

Store the material in a cool, covered dry place. Do not expose the pails to direct sunlight and keep away from all sources of heat.

#### **Health and Safety**

Contains cement powders ,which when mixed or become damp , release alkalis which can be harmful to the skin .

During application, should avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment In case of contact with skin, rinse with plenty of clean water then clean with soap and water.



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