

TOA 258 CEMENT MEMBRANE

Polymer-modified Cementitious Two Component Waterproofing

DESCRIPTION

TOA 258 Cement Membrane is two pack cement waterproofing cement based. Part A is modified polymer and part B is mix powders compound of cement and aggregate which provides special flexible and durable waterproofing membrane for mortar and concrete substrate.

ADVANTAGES

TOA 258 Cement Membrane is used waterproof for mortar, concrete substrate with topcoat protection (cement plaster, ceramic tile and others exterior coatings, etc.):

1. Internal concrete of residential water tanks, Fire water tank, swimming pool, etc., before ceramic tilling
2. Basement, kitchen area, bathroom, balconies, terraces, flat roof and wet area before ceramic tilling.
3. Positive-side waterproofing for basement wall, concrete wall, cement plaster wall, terrace & balconies... with proper topcoat protection

FEATURES AND BENEFITS

TOA 258 Cement Membrane has the following features and benefits:

1. Packed in convenient mixing ratio for easy mixing and application.
2. Improved polymer composition increases good adhesion on surfaces.
3. Create a seamless waterproof membrane, no joints.
4. Capable of covering cracks $\leq 0.50\text{mm}$.
5. The product is non-toxic, can be applied to surfaces in contact with residential water.

PRODUCT INFORMATION

· **Packing size** :

Unit	Part	Appearance	Package
Unit 20 kg	Part A	White liquid	05 kg in plastic can
	Part B	Grey powder	15 kg in bag
Unit 40 kg	Part A	White liquid	10 kg in plastic can
	Part B	Grey powder	30 kg in bag

· **Specific gravity:**

Part A : 1.02 ± 0.02 kg/l

Part B : 2.80 ± 0.20 kg/l

Wet mix : 2.00 ± 0.20 kg/l (Part A + Part B)

Technical Data Sheet

- **Handling and storage:** Store in a dry, temperature about 10°C - 30°C, good ventilation area, shaded area.
- **Shelf Life:**
 - Part A: 24 months
 - Part B: 12 monthsFrom the date of manufacture on the original, unopened and protected packaging under storage conditions.

SPECIFICATIONS

Characteristics	Test method	Results
Adhesion strength after 28 days, MPa	ASTM D 7234-19	>1.00
Water penetration under a water pressure of 1.5 bar for 7 days	BS EN 14891:2017	Non-penetration
Crack bridging ability under standard condition, mm	BS EN 14891:2017	>0.75

APPLICATION INFORMATION

- **Mixing ratio:** Part A : B = 1 : 3 (by weight)
- **Theoretical coverage:** 2.0 ± 0.20 kg/m²
- **Film thickness:**

	Min	Standard	Max
Wet film thickness:	1.00 mm	1.10 mm	1.20 mm
Dry film thickness:	0.90 mm	1.00 mm	1.10 mm

Actual surface coverage will be depended on surface irregularities, technique and wastage during apply.

APPLICATION GUIDELINE

- **Surface Preparation:** The mortar and concrete surfaces must be cleaned, ensuring no dust dirt, oil, grease, old coatings, curing agents or other impurities on the substrate surface. Absorbent surfaces must be completely saturated by fresh water before application.
- **Application tool:** Trowel, brush, roller or airless spraying machine.
- **Mixing:** Mix with a mixer at low speed 300-500 rpm
Put ¾ part A in a clean pail. Keep stirring machine run slow speed at 300-500 rpm, add part B slowly and mix at least 5 minutes to get a lump-free homogenous mix. Add part A remainder and mix until homogenous.
- **Application:** Using trowel, brush, roller, sprayer, apply a layer of mixed mortar onto the treated surface, which has been cleaned as well as saturated with clean water.
Allow to dry for 3-6 hours before applying the next coat.
When applying on a horizontal surface, it is recommended to apply next coating after 24 hours to ensure that the application process does not affect the former layer.
Allow to dry completely for at least 7 days before putting into use.
- **Curing:** It's necessary to protect damp treatment at least for 3-5 days after application, to avoid sunlight direct, high temperature or high win, frost condition that quickly dry affect to waterproofing quality.

Technical Data Sheet

Curing is recommended with nylon sheeting, damp sacks or with TOA approved professional concrete curing agents.

Apply between 5°C to 35°C air temperature and below 80% relative humidity.

Contact TOA for further detailed method of statement for specific

Preparation & application

CERTIFICATIONS

Certified to QCVN 01-1:2018/BYT, Certification of National technical regulation on residential water.

Standard conformity certificate: BS EN 14891:2017

HEALTH AND SAFETY

Please do not handle until all safety precautions have been read and understood.

Keep away from heat, sparks, open flame, hot surface. No smoking when working.

Wear protective gloves, respirator, eye protection, protective clothing.

Avoid contact with skin, eyes or ingestion. Go right to the nearest health center for help in case of ingesting chemical or chemical contacts with eyes.

Avoid release to the environment. Treat waste in according with environmental laws.

See more guidelines in the Safety Data Sheet.

DISCLAIMER

The information in this data sheet is given to the best of TOA's knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond TOA's control. TOA cannot guarantee anything only the quality of the product itself. TOA reserve the right to change given data without further notice.

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