

## Product Description

ELASTOCEM 300 is a two-component polymer modified cementitious coating for protecting concrete structures against water, vapor, ingress of chloride ions, attacks of acidic gases and alkalis. It provides excellent adhesion, flexibility, crack bridging ability, and durability. It is highly resistance to standing water and wind driven rain and is suitable for vertical, horizontal, and overhead surfaces.



## Uses & Applications

ELASTOCEM 300 is ideal for many structural waterproofing applications such as water treatment plants, swimming pools, water tanks, balconies, bathroom, wet area, basements, dams, bridges, tunnels.

## Key Benefits

- Excellent adhesion to sound prepared concrete substrates.
- Protect concrete structure from carbonation and chlorides.
- Superior elongation and flexibility.
- Pre-packaged material only require mixing on site.
- Crack bridging up to 2 mm.
- Non-toxic, therefore suitable for use in potable water applications.
- Breathable – allows transmission of water vapor.
- Accommodate light traffic.
- Easily overcoated with other membrane materials to provide further protection and aesthetic quality.

## Technical Data

CHARACTERISTICS	RESULTS	TEST METHOD
Appearance	Part A: White liquid Part B: Grey powder	-
Mixing Ratio	4:5 (A:B) by weight	-
Mixed Density	Approx. 1.5 kg/L	-
Hardness	70 ± 5	ASTM D2240
Elongation (Accelerated aging 70 °C, 28 days)	250 - 300 %	ASTM D412
Tensile Strength (Accelerated aging 70 °C, 28 days)	>1.2 MPa	ASTM D412
Water Penetration	None	-
Pot life at 30 °C	30 mins	-

**Application Instructions** *Substrate Preparation*

- The substrate should be clean and sound, free of dust loose particles, grease, oil, primers from previous membrane systems or bitumen. Old waterproof membrane should be removed by shotblasting or mechanical means.
- Cracks, holes and honeycombs must be repaired prior to application.

*Mixing*

- ELASTOCEM 300 is supplied in premeasured units. Slowly add the powder to the liquid and mix to a lump free smooth consistency.
- Do not add water or rework a stiffened mix by adding water. Mix sufficient material to use within 30 minutes.

*Application*

- Saturate the concrete's surface with clean water. Apply the first coat while the surface is still damp but no free-standing water. Apply using a short stiff bristle brush, rubber squeegee or roller at a rate of 1.0-1.5 kg/m<sup>2</sup> per coat. Taking care that each layer is not thicker than 1 mm.
- Leave the first coat to dry for 2-3 hours before applying the second coat. The second coat can be rubbed down with a soft dry sponge. Spray or trowel application is acceptable providing the mixing ratio is adjusted to achieve the right consistency.
- Leave the second coat of ELASTOCEM 300 to cure overnight before proceeding to conduct water ponding test.

*Curing*

- ELASTOCEM 300 should be protected from high wind & intense sunshine. Keep moist for 3-4 days after application. Protect from rain until fully hardened.

*Time to Exposure After Application*

- Open to foot traffic after 1 day.
- Installation of tiling after 1 day.
- Backfilling after 3 days protect from damage if fill contains sharp material.
- Hydrostatic pressure after 3-7 days at 30 °C, 60% humidity. Variations may occur due to climatic conditions such as temperature, humidity & substrate porosity.

Consumption Rate	Coat	Coverage per set
1.0-1.5 kg/m <sup>2</sup> /coat	2	Approx. 18 m <sup>2</sup>

\* Coverage rate may vary due to porosity of surface including application method. Field trials are recommended.

### Cleaning

- Tools and equipment should be cleaned whilst screed is still wet using clean water. Hands and skin should be cleaned immediately with clean water.

### Important Notes:

Do not expose to water during setting. Prolonged setting will be apparent if in high humidity. Mechanically damaged membrane is easily repaired by cleaning the surface & reapplying material. Detailing must be undertaken at joints, penetrations, upstands and cracks.

Do not apply ELASTOCEM 300 at temperatures below 5 °C. At normal temperatures ELASTOCEM 300 can be applied once the concrete has reached 3 days old.

### Safety Instructions

Wear appropriate protective equipment such as gloves, safety glasses or goggles, protective clothing during use. In case of eye contact: promptly wash eyes with plenty of water. Continue to rinse for at least 15 minutes and consult physician immediately.

### Packing

45 kg. per set.  
Part A: 20 kg, Part B: 25 kg.

### Storage & Shelf Life

Material must be kept in-door at room temperature, avoid expose of direct sunlight. Product Shelf life is 9 months in unopened package and under suitable storage condition.

Disclaimer: The information provided in this document is based on our knowledge and experience of the product. In actual application results may vary because of site conditions, application methods and other factors that beyond our control. Users are recommended to test out product performance before actual use. Any data contained in this document, including our sale person or staff consultation is in no way constitutes a warranty relative to the use of our products. Our general terms and conditions of sales shall prevail. The superseded version of this datasheet may be issued without prior notice. Customers and users are encouraged to check with our staffs for the latest version of this document.

CLEVCON (THAILAND) CO., LTD.  
14/12 Moo 5, Bung Kham Proi., Lam Luk Ka, Pathum Thani, Thailand 12150  
Tel: +66-2-569-1540 • Fax: +66-2-569-1541  
Email: [clevconthailand@gmail.com](mailto:clevconthailand@gmail.com) • Website: [www.clevconthai.com](http://www.clevconthai.com)



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