

## **> TOTAL BLOCK**

Super Elastic Waterproofing Material based on Highly modified resins

### Description

TOATL BLOCK is a premium, liquid-applied, single-component waterproofing membrane designed for extreme weather conditions. Unlike standard acrylic coatings, this system is engineered with Carbosil Total Block Technology—a proprietary hybrid cross-linking of Carbon-reinforced polymers and Siloxane nano-particles.

This unique composition provides a "Total Block" against water ingress, offering superior hydrophobicity (water repulsion) and high tensile strength to withstand structural movements without tearing.

### Fields of application

- On inclined terrace roofs.
- On exterior areas for vertical and horizontal applications.
- On concrete, zinc and precast rain gutters.
- On concrete, plaster, brick, tile, gas concrete, wood, galvanized steel, zinc etc. for protecting building against water and moisture ingress.
- On china moisaac and tiles.

### Features and Benefits

- Single component.
- 400% elongation.
- very high ponding water resistance.
- Ready to use, easy to apply.
- High adhesion and tensile strength.
- Colorable.
- Creates crack bridge and maintains its elasticity.
- UV resistant.
- Water-based, nontoxic, and nonflammable.
- Suitable for Anti carbonation coating.

Technical Data

Color	White
Density	1.30 g/cm <sup>3</sup>
Elasticity	>400%
Application Temperature	+5°C to +30°C
Service Temperature	-20°C to +80°C
<i>Drying Time</i>	
Surface drying	4-5 hours
Mechanical Strength	5 days
Water impermeability	7 days
crack bridging ability	2 to 3 mm
solid content	>62%
Accelerated Weathering (1500 hrs UV Exposures)	no cracks

Application Procedure

Preparation of Substrate

Application substrate must be dry, sound, mainly smooth, clean and fine pored. The application surface must be clean off materials which prevent bonding, such as oil, rust, paint, silicone, curing agents, detergents and paraffin wax. Weak parts of the concrete must be repaired, plasters that are not well adhered must be removed, the surface must be flat and sound, static cracks on the building must be repaired with a plaster containing SBR SUPER LATEX or RAPID BUILD 20/30. Holes that have water outflow must be filled with PLASTIC MORTAR. Any visible surface cracks up to 10mm wide should be filled using CARBOSIL CRACK FILL. On vertical and horizontal corners fillet with min. 4 cm radius must be applied.

Priming

Prime the surface with TOTAL BLOCK diluted with potable water by volume in 3:1 ratio (3 parts TOTAL BLOCK and 1 part water) and allow it to dry for 2 - 3 hours. For best results use Carbosil Multi Prime

### Application Method

Use TOTAL BLOCK directly from the container. Stir contents well before use. Apply up to 3 coats. Each coat can be applied at 500 - 600 microns WFT. The total thickness shall be around 1mm (1000 microns). The application rate is typically 0.55 - 0.9 kg/sq.m per coat.

### Consumption

Horizontal Surface \* 10-12 sq.ft/KG  
Vertical Surface \* 20-25 sq.ft/KG

### Packaging

18 kg Bucket

### Shelf Life

3 years from the date of manufacture in original tightly closed containers.

### Storage

Store in dry area between +5°C and +35°C. Protect from heat, freezing and direct sunlight. Higher temperature during storage may reduce the shelf life and may lead to gelling in the container.

### Cleanup Information

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

### Cautions/Limitations

- Do not apply during rains or extreme temperatures. Avoid accumulation of water on horizontal surfaces.
- Ensure that the product is applied at least 6 inches inside the drain pipe.
- Avoid any abusive movements of heavy vehicles and sharp objects which may lead to puncture of membrane.
- Ensure covering of entire structure by application of coat from parapet to parapet.
- Avoid painting when the temperature is below 10°C or above 45°C. Relative humidity should be below 85%

### Health and Safety

**Warning!** Cause eye and skin irritation. If eye or skin contact, get immediate medical attention. If swallowed, do not induce vomiting. Call a physician or poison control center. Never give anything by mouth to an unconscious person.

Wash hands thoroughly after handling. Wear protective clothing, gloves, eye and face protection.

Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Dispose of unused, contents, container and other contaminated wastes in accordance with local, state, federal and provincial regulations.

Keep container closed when not in use. Keep out of the reach of children.

**Limited Warranty:** This product is subject to a written limited warranty which can be obtained free of charge from Carbosil Company. Please contact with technical service department for further information and support.

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**Product Information:**

Acrylic copolymer Based, one Component, Flexible, UV Resistant Waterproofing Material  
Application Type: Coating (2.2 / 8.2)

Standard:  
EN 1504-2:2004

Performance Characteristics:

- Water Vapor Permeability: Class I ( $S_d < 5 \text{ m}$ )
- Capillary Water Absorption:  $w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$ 
  - Adhesion Strength (Pull-off):  $\geq 1 \text{ N/mm}^2$
  - Reaction to Fire: B s1 d0
- Dangerous Substances: In accordance with clause 5.3