

# HYDROPRUF WP300



## Product Data Sheet

   Costar Industries Inc.

# HYDROPRUF WP300

## Anti-Crack Integral General Waterproofing Admixture for Concrete and Plaster

### Description

HYDROPRUF WP300 is a specially formulated, high performance liquid anti-crack, integral, general waterproofing admixture which reduces the transmission of water through concrete, mortar and screed. This product is designed for the complete and permanent waterproofing of mass and reinforced concrete structures, ready-mixed and precast concrete, etc. Typical applications areas include, wall plasters, Foundation, piles, water retaining structures, manholes, sewage treatment plants, swimming pool, and septic tanks.

Hydropruf WP 300 is a concentrated formulation of selected reactive materials that impart impermeable properties to all concrete. Its strong wetting and cement dispersion action improves the workability and plasticity of mixes.

### Advantages

- Reduces the permeability of the concrete, plaster and screed, thereby increasing building durability.
- Unlike coatings, HYDROPRUF WP300 when added to plaster or concrete during mixing becomes an integral part of the concrete and plaster; hence, waterproofing protection is still maintained even if surface damage occurs
- Helps to reduce shrinkage crack development in concrete and Plaster especially in hot weather.
- Increases the overall workability of concrete during placement It helps to increase the compressive strength of concrete
- Protects reinforcement bars against ASR attack and corrosion

### Area of Use

HYDROPRUF WP300 can be used for the waterproofing of all types of concrete, plaster and screed such as:

- Foundation
- Swimming pool
- Septic tank
- Water retaining structures
- All concrete, Mortar and Screed requiring waterproofing
- As a complimentary protection in the Screeding of terraces, Balconies and Roof Gutters

### Technical Properties

- Appearance: Low Viscous Brown Liquid
- Specific Gravity: Typically,  $1.1 \pm 0.01$  at  $20^{\circ}\text{C}$
- Chloride Content: Nil to BS 5075
- pH: 9-12

### Limitation

HYDROPRUF WP 300 is not a replacement for good concrete practice. Please note that no amount of waterproofing admixture can replace and make up for poor quality concrete. As a minimum requirement Costar Building Products recommends a minimum of 300 kg of cement per cubic of concrete.

### Standards and Regulation

HYDROPRUF WP 300 meets the water absorption requirements of the European Standard BSEN934-2.

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### Packaging

5L and 20L gallon

### Dosaging

The recommended dosage for HYDROPRUF WP300 is 0.8–1.5L per 50kg bag of Cement. However, optimum dosage to meet specific requirements should always be determined by trials using the admixture on site. The use of Hydropruf WP 300 allows the reduction of water cement ratio by about 10% without affecting workability (the specified slump is preserved). In doing so, a higher compressive strength can be achieved.

### Storage

12 months when kept in a dry and closed area, away from freezing temperatures.

### Health & Safety

- In case of contact with skin and eyes, wash with plenty of water.
- Protective mask should be worn during the preparation of the

### Warranty

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