



# IW++

## Integral Waterproofing-cum-Corrosion Inhibitor For Reinforced Cement Concrete (RCC)

Pack Size  
5Kg, 1Kg & 500grams

## TDS Technical Data Sheet



### Product Description

IW++ is a revolutionary liquid waterproofing compound designed to protect concrete internally from water ingress and safeguard the rebars of reinforced concrete and mortar against chloride-induced corrosion. This unique bipolar compound migrates through concrete during the curing process, forming a passive layer over rebars to prevent chloride corrosion.

### Advantages:

- **Corrosion Resistant & Highly Impermeable:** Provides excellent protection against water ingress and chloride-induced corrosion.
- **Easily Dispersible & Compatible with RCC:** Mixes well with reinforced cement concrete.
- **Highly Compressive Strength:** Enhances the compressive strength of the concrete.
- **Reduces Shrinkage Crack Development:** Minimizes the occurrence of shrinkage cracks.
- **Provides Greater Workability:** Improves the workability of the concrete mix.
- **Increases Durability of Concrete:** Extends the lifespan and durability of concrete structures..

### Applications:

- Used in RCC floors, walls, and slabs.
- It is ideal for mass concrete casting to create dry walls.
- Suitable for bridges and marine structures.
- Effective in deicing areas.

### Application Methodology:

- **Dry Mix:** Cement, sand, and aggregate in a concrete mixer for 2 minutes.
- **Add Water:** Add 75-80% of the required water into the mix and mix for 3 minutes.
- **Add IW++:** Mix IW++ in the remaining water at a ratio of 200 ml per bag of cement, then add it to the wet mix and mix for an additional 2 minutes.
- **Placement:** Place the concrete or apply plaster as needed.
- **Curing:** Cure the applied mortar or concrete as per good construction practices.
- **Air Entraining Agent:** If using an air-entraining agent, conduct a pre-blend trial to determine the appropriate dosage as IW++ increases air-producing efficiency.
- **Compatibility:** It is compatible with all types of Portland cement, including SRC (Sulphate Resistance Cement), but not with high-alumina cement.

### Physical Properties:

|            |                                   |
|------------|-----------------------------------|
| Appearance | Light yellow, free-flowing liquid |
|------------|-----------------------------------|

## Physical Properties:

|                         |             |
|-------------------------|-------------|
| pH                      | 9-13        |
| Specific Gravity @ 30°C | 1.09 ± 0.01 |
| Water Permeability      | Pass        |
| Non-Volatile Content    | 18 ± 1%     |

## Coverage Estimates:

Dosage: 200 ml per bag of cement

## Pack Size

5K, 1Kg & 500grams



## Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

## Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

## Legal Disclaimer

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.