



CONGUARD ICW

CONGUARD ICW is a specially formulated concrete admixture as well as integral liquid waterproofing compound composed of surface-active plasticising agents. It reduces the water demand for required workability and minimises segregation and bleeding, which results in higher strength of concrete. CONGUARD ICW can be used in all types of concrete and mortar used in residential, commercial and infrastructural construction. Standard compliance IS 2645:2003

RECOMMENDED APPLICATION

Waterproofing of concrete and sand-cement mortar used in

- Basements
- Bathrooms and balconies
- Roofs
- Sumps and drains
- Slabs and screeds
- Water tanks & water retaining structures
- External plastering

TECHNICAL SPECIFICATION

Appearance & Form	Dark Brown Liquid
Specific Gravity at 25° C	1.065 ± 0.02
pH Value	≥ 6
Chloride Content	As per IS 2645-2003 Max 2.0%
Water permeability	As per IS 2645-2003. Less than 15% as compare to 50% max.

PACKAGING	COVERAGE	SHELF LIFE
200 ml, 1 Ltr, 5 Ltr, 20 Ltr, 50 Ltr & 200 Ltr Containers	Minimum 150 ml For 50 Kg Cement Bag	12 months from the date of packing. Should be stored in cool & dry condition, keep away from direct sunlight.

HEALTH & SAFETY

- Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment during application.
- In case of contact with skin, rinse with plenty of clean water and cleanse with soap water.

BENEFITS & KEY FEATURES



CORROSION RESISTANT

Make concrete more cohesive, hence protects steel better against corrosion.



PERMEABILITY

It reduces the permeability of water into concrete.



SHRINKAGE

Reduces shrinkage crack development in plaster & concrete.



DURABILITY

Increases durability by improving the waterproofing of concrete.



HIGH STRENGTH

The setting time and compressive strength of the concrete remains within the specification limits.



COMPATIBILITY

Being a liquid, easily dispersible & compatible with concrete/mortar mixes.



WORKABILITY

Improves the workability of freshly mixed cement concrete.

DIRECTION FOR USE

MIXING & APPLICATION



- Charge cement & aggregates to concrete mixer as per the mix design. Mix in a dry state for 1-2 minutes.
- Start addition of 75-80% mixing water & mix 2-3 minutes.
- CONGUARD ICW is added per the recommended dosages in the remaining mixing/gauging water, then add to the concrete mixer & mix for another 2 minutes.
- Place the concrete or apply plaster as needed.
- Cure the applied mortar or concrete as per acceptable construction practices.

DOSAGE



Minimum 150 ml for 50 kg bag of cement (0.2% by weight of cement) & maximum dosage 200 ml per 50 kgs of cement. If a maximum dosage is used, a minimum of 15% of the water should be reduced to ensure no loss in strength. Site trails shall be carried out to arrive at the optimum dosage.