

# DONCRETE-CWA 100 (SPECIAL)

Hydrophobic Pore Blocking Crystalline Waterproofing Admixture

**STANDARD - CONFORMING TO : DIN-1048/BS : EN 12390-8/BIS : 3085, ASTM-C-202, BS : 1881-122, 102 and 208 and BS : 1377 Part - 3**

## DESCRIPTION :

This is Hydrophobic pore blocking crystalline waterproofing admixture which is working as Hydrophobic. Doncrete CWA 100 (Special) working like super admixture for waterproofing purpose. Doncrete CWA 100 (Special) is hybrid crystalline Hydrophobic to waterproof, protection and improvement of concrete. Doncrete CWA 100 (Special) is added to the concrete mix at the time of batching, it consists of Portland cement and various active chemicals react with moisture in fresh concrete and with the by-products of cement hydration to cause a catalytic reaction. This reaction generates a non-soluble crystalline formation throughout the pores and capillary tracts of the concrete it permanently seals the concrete and prevents the penetration of water.

## PRODUCT PROPERTIES :

Provides an efficient and durable barrier against rain water, moisture, groundwater and makes concrete waterproof. Makes the mix more workable.

Improves the slump.

Disperses rapidly & makes a homogeneous mix.

Free from chloride.

Certified for use in concrete in contact with water intended for human consumption.

Highly resistant to aggressive chemicals.

Permeability reducing admixture for Hydrostatic condition.

## RECOMMENDED AREA :

**DONCRETE CWA 100 (Special):** Can be used in basements slab, basement walls, cost in place structural slabs, elevator pits, foundation, wet area, roof/Terrace Garden/podium decks, outdoor balconies, swimming pools, plaster etc.

**Industrial:** Can be used in water retention structure, cooling towers, floors slab etc.

**Infrastructure :** Can be used in underground pipes, tunnels, pile foundation, manholes, dams, potable water tank etc.

- 1. Reduction of Capillary Pores:** Special additives in Doncrete CWA 100 (Special) make the concrete more workable (increases slump) at the same w/c ratio or provide a reduction in w/c at the same workability levels. This properly helps concrete achieve excellent compactability thereby reducing capillary pores.
- 2. Hybrid Crystalline :** Doncrete CWA 100 (Special) uses special latent hydraulic and pozzolanic nanoparticles to ensure densest packing in the cement matrix at the nano scale. The cement matrix is therefore densified by a complex process called hybrid crystallization.
- 3. Hydrophobic Pore Blocking Mechanism:** In addition to reduction of capillary pores and the hybrid crystallization Doncrete CWA 100 (Special) has special additives, which on one hand causes contraction of capillaries and on the other hand converts the water repellent capillary. Thus water is pushed out of the capillary pores and the concrete is kept dry.

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## ADVANTAGES :

Following are a few advantages of using Doncrete CWA 100(Special) as additives to-

1. Resists water penetration and abrasion.
2. Makes the mix more workable (improves the slump)
3. Makes the w/c ratio reduction possible.
4. Does not change setting time nor adversely affect the reinforcement.
5. Disperses rapidly and makes a homogeneous mix.
6. Free from chlorides.
7. Provides an efficient and durable barrier against rain water moisture and groundwater.
8. Makes the concrete waterproof.
9. Seal the future hairline cracks.

## INSTRUCTION FOR USE

Doncrete CWA 100(Special) is easy to use, either in the concrete batching plant or in transit mixer at site. Doncrete CWA 100(Special) should be added to the concrete after all other components of the mix have been added. Concrete should be mixed for at least a minute after addition of Doncrete CWA 100(Special). Dosage is economical at 0.80 to 2% by weight of cement or at least 3kg Doncrete CWA 100(Special) of concrete.

## Technical Data for Doncrete CWA 100 (Special)

Recommended dosage - 0.8 to 2% by weight of cement

### Hydrophilic Mechanism



### Hydrophobic Mechanism



## Product characteristic for Doncrete CWA 100 (Special)

Type of Product	High Performance Integral Waterproofing Additive
Form	Powder
Colour	Greyish to off white
Shelf Life	12 Months from date manufacture
Delivery	1, 25 kg Bags/Packs.
Storage	In unopened packing, protect from rain direct sunlight, heat and frost
Disposal	Empty packs completely and dispose off carefully to protect our environment
pH	12.0 – 12.4
VOC	Zero VOC

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## Warranty :

The manufacturer warrants that the products manufactured by it shall be free from materials defects and will be consistent with its normal high quality. Should any of the products be proved defective, the liability to the manufacturer shall be limited to replacement of the product at the factory. The manufacturer makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties expressed or implied. The users shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith.



TECHNICAL COLLABORATION WITH



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