

DONCRETE- CWC (Dual)

DUAL-CRYSTALLINE PENETRATING CONCRETE MASONRY COATING SYSTEM

- In-depth waterproofing and protection
- Permanent active
- Applied to pressure or non-pressure concrete face
- Approved for potable water contact
- High chemical resistance
- Self-sealing capability

PRODUCTION DESCRIPTION

DONCRETE-CWC (Dual) is a Dual-Crystalline, penetrating concrete and masonry coating. It is a crystalline - based and environmentally-friendly waterproofing product that combines hydrophobic and hydrophilic crystals for pore-blocking function, and hydrophobic material for pore lining. It is designed to protect surfaces from the delaminating effects of water, moisture saturation, freeze/thaw, Alkali Silica Reactions (ASR), chloride-ion penetration and ice adhesion.

DONCRETE-CWC (Dual) is a single compound grayish to off white powder. This is mixed with water and applied as a slurry coat to the positive or negative side of the concrete either as a two-coat or as the first coat of a two-coat application. **DONCRETE-CWC (Dual)** waterproofs chemically by forming insoluble crystals in the pores and capillaries of old and new concrete and prevents the penetration of water or liquid from any direction.

PROPERTIES

When **DONCRETE-CWC (Dual)** is applied to a concrete surface, the active chemicals combine with the free lime and moisture present in the capillary tract, to form insoluble crystalline complexes. These crystals block the capillaries and minor shrinkage cracks in the concrete to prevent any further water ingress (even under pressure). However, the **DONCRETE-CWC (Dual)** layer will still allow the passage of water vapor through the structure (i.e. the concrete will still be able to breathe). **DONCRETE-CWC (Dual)** is approved for use in contact with potable water, and is therefore suitable for the treatment of water storage tanks, reservoirs, water towers, etc.

AREAS OF APPLICATION

DONCRETE-CWC (Dual) can be applied to all structurally sound concrete, new or old. It may be applied to either the pressure or non-pressure concrete face (i.e. with or against water pressure). The minimum concrete requirement for effective waterproofing is a concrete of high strength grade with minimum 3 inches thickness.

RECOMMENDED FOR

- Basements
- Concrete Water Tanks
- Tunnels and Subway
- Roof Slab
- Sewage and water Treatment Plants
- Reservoirs
- Concrete Gutter
- Sunken Portion
- Foundations

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TECHNICAL DATA

Colour	Grayish to off white
Bulk Density/ Setting Time	1.25 Kg/L / 60 Min
Water permeability	EN 12390 – 8
Chemical Resistance	ASTM C-267-77 can withstand acid and alkaline of range between pH 3-11 constant contact
Freeze Thaw resistance	ASTM C-666-97 300 cycles show less length change – 0.09% in untreated and 0.039% in treated
Resistance to chloride to ion penetration	ASTM C666-97 No increase in the internal chloride content

SAFETY PRECAUTIONS:-

Always wear protective goggles and gloves. In case of eye contact, flush for 15 minutes with warm water. If irritation persists, seek medical attention. reach of children.

MIXING RATIO:

Add clean pre-measured quantity of water to **DONCRETE-CWC (Dual)** in the ratio recommended for paste consistency required. Use as little water as is required for ease of placement. Job placing conditions including temperature may require adjustment as may be essential for practical purposes. Small trial batches to ascertain the best working consistency for the operation are recommended

Suggested W/P Ratio

0.20 to 0.25 depending on requirement of paste consistency



TECHNICAL COLLABORATION WITH



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