

INTEGRAL WATERPROOFING ADMIXTURE BY CRYSTALIZATION

DESCRIPTION

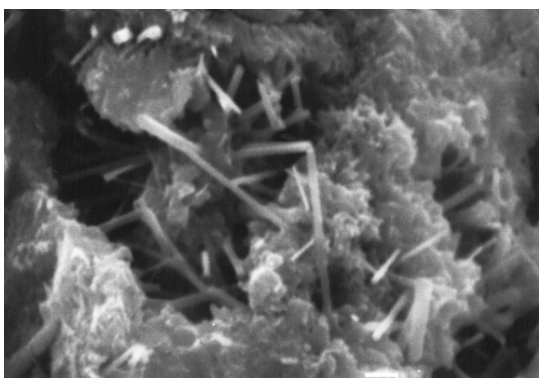
A high grade easy to handle liquid integral waterproofing admixture for both waterproofing and concrete corrosion protection using unique nanotechnology to chemically modify the cement matrix by reacting with the cement paste to reduce pore & capillary size. The reaction between **Conmix H₂O Stop** and cement paste produces a non soluble crystalline structure throughout the pores & capillaries.

USES & ADVANTAGES

Use to seal the pores and capillary tracts thereby densifying the concrete creating an impermeable watertight concrete. Uses include for all types of waterproofing and concrete corrosion protection including in basements, water tanks, roofs, reservoirs, dams, waste water plants, swimming pools, water treatment plants, tunnels, marine structures etc.

Advantages include:-

- Seals microcracks. Can seal hairline cracks up to 0.4 mm.
- Concrete waterproofed throughout.
- Improved durability.
- Protection against Chloride and sulphate ingress.
- Withstands hydrostatic pressure.
- Improves chemical and carbonation resistance.
- Fast tracks construction.
- No installation costs, seams or joints.
- Does not rely on bond to work.
- A permanent solution.
- Integral waterproofer.
- Non toxic.
- Reduces opportunity for freeze thaw damage.
- Improves workability and strength.
- May reduce existing admixture dosage.



Initiation of Crystal Growth in Cement Paste

- No costly surface preparation.
- Added to concrete not constrained by weather conditions.
- Liquid does not clump as powders and easy to dose.

PROPERTIES

Appearance :	Liquid
Colour:	Transparent or Blue
pH :	13 - 14
Specific Gravity :	Approx. 1.21-1.23
Chloride Content :	Nil

APPLICATION

Conmix H₂O Stop is added to the concrete at the time of batching at dosages of 0.8 - 1% by weight of cement by automatic dispensers.

Under certain conditions the dosage used may be 2-3% by weight of cement to meet the specific requirements of a project. For the optimum dosage consult Cormix.

Note : **Conmix H₂O Stop** should be tested in trial mixes to determine the optimum dosage and any necessary changes to existing additive dosages. Do not use without checking workability, slump retention and retardation in advance. Agitate before use.

OVERDOSING

Overdosing of **Conmix H₂O Stop** will result in increased workability and possibly more rapid set. In the case of accidental overdosing check strengths and setting times before stripping forms.

Overdosing normally will have no detrimental long term side effects as long as cured correctly with water before stripping forms. In general 28 day strengths would be improved. If in doubt contact Cormix Technical Department.



Basement Waterproofing Wastewater & Potable
Water Tank Waterproofing

Conmix[®] H₂O Stop



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STANDARDS

Permeability

• According to Permeability tests CRD 48-73 **Conmix H₂O Stop** shows no leakage at 7 days compared to the control which showed continuous leakage. Pressure tested to 150 m. head of water.

Compressive Strength

• Compressive strengths at 28 days according to ASTM C 39 showed strength increases of 10% compared to the control.

Chemical Resistance

• Sulphuric acid test resistance shows a significant reduction in percentage weight loss compared to the control. Resistant to alkali / acid conditions pH range 3-11 constant contact.

Sulphate Resistance

• Sulphate resistance is significantly improved when measured by both weight loss and length gain.

Freeze Thaw Resistance

• When measured to ASTM C666 Freeze Thaw Durability the treated concrete showed a marked reduction to attack over the control mix.

PACKAGING & STORAGE

Conmix H₂O Stop is available in 25 litre pails or 200 litre drums. The product must be stored shaded at a minimum temperature of 45°F (7°C). Shelf life is one year when stored under proper conditions. Agitate before use. Protect from freezing.



Basement, Swimming Pool & Water Tank Waterproofing

HEALTH & SAFETY

Conmix H₂O Stop is highly alkaline. Protect hands with rubber gloves and wear safety goggles during mixing & application. Avoid contact with skin or eyes. Should contact occur, flush copiously with water. If irritation persists, contact a physician.

TECHNICAL SERVICE

Technical assistance including mix design preparation and supervision on site during incorporation of **Conmix H₂O Stop** is available by contacting Cormix International Limited.

QUALITY ASSURANCE

ISO 9001 : 2008 verified by TUV Nord.

CONTACT DETAILS

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Basement & Water Tank Waterproofing

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