

## AN INTEGRAL WATERPROOFING ADMIXTURE USING NANO TECHNOLOGY

### DESCRIPTION

An integral waterproofing admixture based on nano technology specifically formulated for use in basement waterproofing. **Contite BW** provides through the process of waterproofing by crystallization both waterproofing and cement paste corrosion protection.

### USES & ADVANTAGES

The product has been developed for basement waterproofing/below grade structures including tanks, pools, tunnels 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.
- Non toxic.
- Improves workability and strength.
- No costly surface preparation.
- Added to concrete not constrained by weather conditions.
- Liquid does not clump as powders and easy to dose.

### PROPERTIES

<b>Appearance :</b>	Liquid
<b>Colour:</b>	Pink
<b>pH :</b>	13 - 14
<b>Specific Gravity :</b>	Approx. 1.15-1.17
<b>Chloride Content :</b>	Nil



### APPLICATION

**Contite BW** is added to the concrete at the time of batching at a dosage of 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 : Contite BW** 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 **Contite BW** 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.

### STANDARDS

#### Permeability

- According to Permeability tests CRD 48-73 **Contite BW** 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.



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### **Sulphate Resistance**

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

### **PACKAGING & STORAGE**

**Contite BW** 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.

### **HEALTH & SAFETY**

**Contite BW** 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 **Contite BW** is available by contacting Cormix International Limited.

### **QUALITY ASSURANCE**

ISO 9001 : 2008 verified by TUV Nord.

### **CONTACT DETAILS**

#### **Cormix International Limited**

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