

# WATERVEX

## INTEGRAL WATER PROOFING ADMIXTURE FOR CONCRETE

### DESCRIPTION

**WATERVEX** is a permeability reducing admixture for use with all type of mortar and concrete mixes. It is particularly suitable for use in ready mixed concrete and all types of structural concrete. It is also usefully employed in precast concrete involving use of wet and semi dry concrete.

### FEATURES

**WATERVEX** is formulated from carefully selected raw materials and is manufactured under controlled conditions to give a consistent product. The ingredient present is **WATERVEX** forms a thin hydrophobic layer within pores and voids of concrete to provide maximum reduction in permeability without any unwanted side effects. When tested in accordance with B.S 1881, part 122, water absorption was found to be reduced approximately 50% of control value.

### USES

**WATERVEX** can be used for the preparation of watertight concrete employed in construction of water retaining structures, concrete roofs, basements, tunnels, sea walls, tanks, swimming pools, construction in humid atmospheric conditions etc.

**WATERVEX** is suitable for damp proofing screeds in bathrooms, kitchens, and external render.

### ADVANTAGES

- **WATERVEX** prevents capillary action and reduces permeability in concrete and permanently protects it against dampness and under water pressure.
- Imparts to the mortar or concrete the properties of an impermeable material without restraining the breathing of structure.
- Reduces the quantities of water needed in the mix due to its plasticizing properties, thus strength and impermeability of concrete will be improved.
- Sulfate attack is reduced, as the sulfate bearing ground water being resisted.

### TYPICAL PROPERTIES

**Appearance:**

Turbid yellow liquid

**Specific gravity:**

1.04 at 25°C

**Chloride content:**

Nil to BS 5075

**Toxicity:**

Non-toxic.

**Compatibility with cement:**

**WATERVEX** can be used with all types of portland cement. It can also be used in mix designs containing fly ash and microsilica.

**Compatibility with other admixtures:**

Compatible with other Ahlia admixtures, if added separately to the mix. **WATERVEX** should not be premixed with other admixtures.

**Shelf life:**

At least 18 months if stored in tightly closed containers at normal ambient temperature.

### DIRECTIONS FOR USE

**WATERVEX** is supplied ready for use. Trials should be conducted on site using the actual concrete mix to determine the exact quantity of **WATERVEX** to be admixed, so as to produce waterproof concrete conforming to the particular standards. Good concrete practice must be followed all times.

**Dosage:**

1.0 liter per 100 kg of cement weight (It is advisable to add other approved water-reducing admixture to achieve required workability and concrete properties).

**Dispensing:**

Best by a dispenser into the gauging water or directly with water into the mixer.

**Overdosing:**

An overdose of double the recommended dose of **WATERVEX** can result the retardation of initial set of concrete. The ultimate strength of the concrete will not be impaired if properly cured.

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### SAFETY PRECAUTIONS

**WATERVEX** is non-toxic and non-flammable. Splashes to eyes should be washed immediately with abundant water. It is advisable to use goggles and gloves while handling **WATERVEX**.

### PACKAGING

**WATERVEX** is supplied in 205 liter barrels and 20 liter pails.

### STORAGE

Preferably store in closed conventional containers, protected from extreme weather conditions.

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#### TECHNICAL SERVICE:

Our Technical Service Department is available at any time to advise you in the correct use of this product or any other Ahlia products.

**Note :** The information presented herein is based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control.

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