

CAT. No. ADM-8-2010

# ISOLITH IW

## Integral Waterproofing Admixture

**ISOLITH IW** is a liquid, white solution of fatty acid sulphonium salt and other chemicals which when added to fresh concrete mixtures, provides a hydrophobic, internal barrier against water penetration. It reacts with excess free lime in cement and blocks micropores inside the concrete mass. **ISOLITH IW** also increases the workability of concrete and mortars and do not entrain additional air. Due to its superior wetting action, **ISOLITH IW** is ideal for use as a plasticizer for zero slump concrete or mortar specifically in machine formed precast concrete or paving masonry blocks. It does not contain chlorides or other potential corrosion – enhancing ingredients.

### USE

**ISOLITH IW** is used as an integral water proofing admixture and plasticizer for conventional high or zero slump concrete and mortars. Typical uses are in mass concrete foundation walls, floors, hollow core slabs, catch basins, industrial water-retaining structures, concrete pipes, bridge decks, paving, masonry blocks etc.

### ADVANTAGES

- Provides an integral, hydrophobic barrier against water penetration.
- Reduces moisture absorption and capillary action.
- Reduce vapor transmission through floor slabs and walls.
- Increased plasticity – suitable for zero and high slump concrete.
- Improved casting and finishing properties.
- Two-fold action based on chemical reaction and pore blocking.
- Does not contain chlorides.
- Does not entrain air.

### TYPICAL PROPERTIES

|   | Plain Concrete | With ISOLITH IW |
|---|----------------|-----------------|
| 1. Water Absorption after 24 hours total immersion, %   | 4.50           | 1.50            |
| 2. Relative Compressive strength @ 28days, % of control | 100(control)   | 105-110         |
| 3. Chloride Content                                     | Nil            |                 |

### DOSAGE

**ISOLITH IW** is added to fresh concrete or mortar mixtures at the rate of 1 to 3 liters per cubic meter concrete containing not less than 330 kilogram cement content. **ISOLITH IW** is also compatible with **ISOPLAS BT**, **ISOLA PSM** and **ISOPLAS PC**. When determining optimum dosage, trial mixes should be carried out.

### ADDITION

Total mixing water is added first to the dry ingredients and mixed for 15 seconds. After initial mixing, **ISOLITH IW** is then added and mixed further until concrete is uniform. For a one cubic meter batch, total mixing time should not be less than 100 seconds. If intermixing with other admixtures (BT or PS) is desired. **ISOLITH IW** should be added last separately after the other admixtures.

### PACKING

**ISOLITH IW** is packed in 20 liter pail and 210 liter drum.

### SHELF LIFE

At least six(6) months in original container stored in a dry place, below 32<sup>o</sup> Celsius.

(Note: **ISOLITH IW** is a chemical solution. As with all solutions, it is always advisable to stir or agitate it prior to use)

### CAUTION

**ISOLITH IW** is non-toxic and non flammable. Accidental splashes on the skin should be washed immediately with water. Eye splashes should be flushed immediately with water and medical attention sought. Refer to MSDS for more information.

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Technical information, data are to be considered as typical values and not sales specification. Actual measured values may vary due to factors beyond our control. Indications concerning function and application of the products are empirical. Although the information is believed to be accurate, there is no warranty by ISOLA. None of the recommendations becomes part of the warranted quality of the products. Due to the fact that the conditions of individual use are beyond ISOLA's direct and continuous control, ISOLA disclaims all responsibility in connection with the use of its products and does not warrant against any loss direct or consequential

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