

## UNIPLAST IWP

### HYDROPHOBIC PORE BLOCKING ADMIXTURE FOR CONCRETE & PLASTER

UCA-LA-09-0722

#### DESCRIPTION

UNIPLAST IWP is crystalline & hydrophobic waterproofing admixture for concrete.

UNIPLAST IWP is special blend of polymers, surface active agents and reactive chemicals, which is used as an admixture for cement concrete, mortar and plasters.

It has plasticizing action along with crystal formation to block the pores in cement based products. Due to this it acts as in integral waterproofing agent, making the cement concrete and plasters water tight.

#### USES

- ❖ UNIPLAST IWP used to minimize permeability and increase the waterproofing properties of concrete and cement sand mortars.
- ❖ UNIPLAST IWP used for waterproofing of roof slabs, external plaster, basements and screeds, water retaining structures, bathrooms, water tanks, balconies, sumps and in drains.
- ❖ Usable on decorative features because of limited efflorescence compared to standard crystalline products.

#### ADVANTAGES

- The reaction takes place with the free lime of concrete and creates a permanent reduction of water permeability.
- Significantly improves concrete water impermeability
- It retains the breathing efficiency of concrete and plasters.
- Increases durability by improving integral waterproofing of concrete.

#### ADVANTAGES (contd.)

- Economical admixture as consumption is very low.
- It improves the plasticity and reduces the shrinkage crack development in concrete and plasters.
- Chloride free: Safe in reinforced concrete.

#### TYPICAL PROPERTIES

<b>CALCIUM CHLORIDE CONTENT</b>	None as per EN 934-1:2008
<b>SPECIFIC GRAVITY</b>	1.03 – 1.06 g/cc @ 25 °C.
<b>CEMENT COMPATIBILITY</b>	Compatible with sulfate resisting and other Portland cements and high alumina cements
<b>PACKAGING</b>	20, 200 Ltr, 1000 L IBC and in Bulk Tanker

#### STANDARDS

UNIPLAST IWP meets the requirement of BS 4887, BS EN 934-2:2009+A1:2012 Table 9 and IS: 2645-2003 standard.

#### INSTRUCTIONS FOR USE

##### DOSAGE

The optimum dosage for UNIPLAST IWP should be determined by site trials with the particular mix design under prevailing ambient condition.

**As a guide the dosage is normally 100 ml per 50 kgs bag of cement**

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We provide **technical support service** on mix design, admixture selection, evaluation of trials, dispensing equipment etc. Please contact the Technical department in these cases.

It is ready to use liquid, added into the concrete together with the mixing water. Add UNIPLAST IWP as per the recommended dosage in the water or along with water to the concrete or plaster mixer. After completion of mixing, concrete or plaster is ready for application.

The addition of UNIPLAST IWP to dry aggregates or cement is not recommended.

### CURING

As with all structural concrete normal curing methods apply.

### CLEANING

Spillages of UNIPLAST IWP can be removed with water.

### STORAGE & SHELF LIFE

UNIPLAST IWP should be protected from extremes of temperature. It has a shelf life of 12 months from the date of manufacturing. Store in a dry & shaded area in original packaging.

### SAFETY PRECAUTIONS

UNIPLAST IWP is nontoxic. Any splashes to the skin should be washed immediately with water. Splashes to the eyes should be washed immediately with water and medical advice should be sought.

**Fire:** UNIPLAST IWP is non-flammable.

### LIMITATION OF LIABILITY

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.

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