

UNIPLAST LMP

Hydrophobic Pore Blocking Admixture for Concrete & Plaster

Ref. UCA/LWP - V0 - 0419

Description

UNIPLAST LMP is crystalline & hydrophobic waterproofing admixture for concrete.

UNIPLAST LMP 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 LMP used to minimize permeability and increase the waterproofing properties of concrete and cement sand mortars.

UNIPLAST LMP 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.

It retains the breathing efficiency of concrete and plasters.

Increases durability by improving integral waterproofing of concrete.

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

Chloride content: Nil.

Specific gravity: 1.02 to 1.10 at 20°C.

Air entrainment: Less than 1% additional air is entrained

Cement compatibility: Compatible with sulfate resisting and other Portland cements and high alumina cements.

Water Permeability: <50 % of control

Standards

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

Direction for use

Dosage:

UNIPLAST LMP is dosed 100 ml per 50 kgs bag of cement. In case of additional dosage, consult to technical department.

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It is ready to use liquid, added into the concrete together with the mixing water. Add UNIPLAST LMP 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 LMP to dry aggregates or cement is not recommended.

Curing: As with all structural concrete normal curing methods apply.

Cleaning: Spillages of UNIPLAST LMP can be removed with water.

Packaging

UNIPLAST LMP is supplied in 20, 200 Ltr and in Bulk.

Storage and Shelf life

Storage: UNIPLAST LMP should be protected from extremes of temperature. Should the material become frozen, it must be completely thawed and thoroughly mixed before use. UNIPLAST LMP has a minimum shelf life of 12 month provided temperature is kept within the range 5°C to 30°C.

Technical Service

Unichem Chemicals & Asphalt W.L.L provides technical support service on mix design, admixture selection, evaluation of trials, dispensing equipment etc. Please contact the Technical department in these cases.

Safety precautions

UNIPLAST LMP is nontoxic. It is alkaline in nature. It is recommended to use rubber hand gloves and safety goggles. However, any splashes on the human body, must be washed with plenty of water.

Fire: UNIPLAST LMP is non-flammable.