

MELAMINE POLYMER

(S.M.F Liquid) SUPERPLASTICIZER FOR PRECAST CONCRETE

DESCRIPTION

MELAMINE POLYMER is an aqueous solution of sulphonated melamine formaldehyde condensate, synthesized by introducing a Sulphonate entity into precondensate oligomer of Melamine (S. Triamino Triazine) and Formaldehyde in a state-of-the-art macromolecule processing plant.

MELAMINE POLYMER is a water-reducing superplasticizer for concrete mixtures, capable of yielding a rheoplastic concrete without segregation of aggregates from cement paste due to maximum surface adsorption of the negatively charged sulphonate group on the hydrating cement particles. It forms a lubricating film, reducing the internal friction of the heterogeneous concrete mixture.

MELAMINE POLYMER is a powerful cement dispersing agent, having water reducing capacity and the ability to produce high flowability, very high early strength as well as an impermeable, durable concrete.

TECHNICAL STANDARDS

- Appearance : Clear off-white
- Specific Gravity : 1.10 ± 0.02
- pH value : 8 ± 1
- Solubility : Water soluble

STANDARDS

MELAMINE POLYMER meets the requirements as stipulated in IS: 9103-1999 (Superplasticizing admixture for water reduced concrete mixtures, Normal), ASTM C-494 Type F and BS: 5075, Part 3.

FEATURES

- Superplasticizes concrete without bleeding Rheoplastic and self compacting.
- Compatible with ordinary Portland as well as Slag and Fly ash blended cements.
- High water reduction at same workability.
- Low water adsorption.
- Self leveling concrete without efflorescence.
- Significant reduction of internal friction and thixotrophy enabling pouring of concrete into sections around congested reinforcement requiring no vibration to achieve optimum compaction.
- Detrains entrapped air from concrete unlike lignosulphonates and naphthalene sulphonates which disperse entrained air causing loss of concrete strength and durability.
- It can promote and strengthen colour, brighten the colourful surface layer.

BENEFITS

A few of the innumerable benefits of MELAMINE POLYMER

- Earlier removal of formworks/moulds.
- Quicker mould recycles in pre-cast concreting and paving tiles.
- Earlier de-stressing of wire reinforcement in pre-stressed concrete members.
- Cement savings (15 to 20%) per unit volume of concrete.
- Spots-free, smooth finish without holes and gaps.
- Provides high tensile strength.
- Prolongs colour durability of tiles.

DOSAGE

Depending on cement factor, grade of concrete, shapes and fineness of course and fine aggregates, the dosage of MELAMINE POLYMER can vary from 0.4% to 2% by weight of cement.

For Concrete Paving Tiles – 200 gm to 500 gm for 50 kg cementitious material depending on nature of mix, cement content, water-cement ratio etc. The optimum dosage is best determined by laboratory and site trials.

MATERIAL SAFETY DATA

MELAMINE POLYMER is made from chemicals which present no fire or health hazard. However, in case of spillage, washing with water is adequate. Skin contact should be avoided.

STORAGE AND SHELF LIFE

To be stored away from heat and frost. Best before 12 months from the date of manufacture.

PACKING

50 kg and 200 kg HDPE drums. Small and Bulk packing on request.

DISCLAIMER

Information contained in this bulletin is true, accurate and represents our best knowledge and experience. No warranty is given or implied with any recommendations made by us or any of our representatives, as the conditions of use and the competence of any labour involved in the produce usage are beyond our control.



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