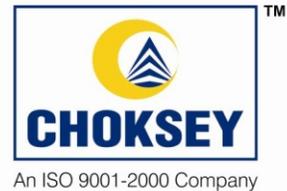


□ MASTERPLAST SPL-9M3

Superplasticiser for Cement Concrete and Mortars



DESCRIPTION

Master Plast SPL-9M3 is a unique superplasticising admixture for cement concrete and mortars. Based on modified Sulphonated Naphthalene formaldehyde polymer. It retains the workability of concrete for few hours. It enables water requirement to be reduced for a given workability at low dosages. It retains workability of concrete in proportion to the amount of admixture used. It is more used in situations where workability retention is needed.

FEATURES / ADVANTAGES

- It controls the rate of setting of concrete and mortars.
- It improves workability and easier handling.
- It can be used even for micro silica, fly ash and slag cement concrete.
- It improves finished appearance of hardened concrete. by minimizing honeycombed surface.
- It permits reduction of water to cement ratio.
- It eliminates formation of cold joints between subsequent pours in mass of structural concrete.
- Due to water reduction it increases not only early and ultimate compressive strength bur strength of concrete alt all ages.
- It allows lowering of cement content without affecting the normal strengths of concrete.
- It does not contain chlorides hence does not corrode the reinforcement.

USAGE

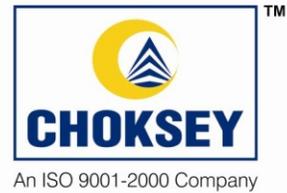
- It is widely used in ready mix concrete
- Master Plast SPL-9M3 is particularly recommended for concreting in hot climates, long or difficult pours prestressed concrete in large sections or mass concreting.
- It is used more specifically in
 - Pavement concrete, Piling concrete
 - Structural concrete
 - Bridge decks, highway concrete.
 - Precast concrete, Pumped concrete, Long distance transporting

TYPICAL PROPERTIES

- Color & appearance : Dark brown medium viscous liquid
- pH value : Min 6
- Relative density @ 25°C : 1.275 ± 0.02 gm/cc
- Chloride content : 0.2% Max. as per IS 6925.

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SPECIFICATION COMPLIES

Specification complies with:

Indian standard specification	: IS 9103, Superplasticiser Retarding type.
British standard specification	: BS 5075 Part 3
American standard testing materials	: ASTM C-494 Type G

DOSAGE

Normal dosage range of Master Plast SPL9M3 is 0.3 to 1.8 % by weight over cementitious materials including PFA, GGBFS and Microsilica/metakaolin. The optimum dosage to meet the specific requirement should always be determined by conducting trial mixes using the materials and conditions that will be experienced in use. Because of variations in job conditions, concrete materials and climatic conditions dosage rates may vary in such cases, contact our CCPL (Construction chemicals) representative.

EFFECTS OF OVERDOSAGE

An overdosing of Master Plast SPL9M3 can result in the following.

Delay of initial & final set of concrete.

Increase in plastic shrinkage.

Increase in air entrainment.

Severe bleed & segregation of mix

Due to slight overdosing of Master Plast SPL9M3 the ultimate compressive strength of concrete can not be get affected, providing it is properly compacted & cured. Due allowance should be made for the effect of fluid concrete pressure on formwork, & stripping time should be monitored.

DIRECTION FOR USE

Stir well the material before use.

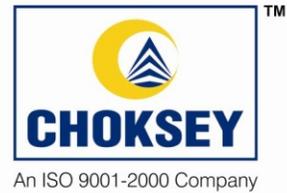
Master Plast SPL9M3 is ready to use liquid which is dispensed in to the concrete together with the mixing water.

The dispersion effect is higher if it is added to the damp concrete after 60 to 70% of mixing water has been added.

Not recommended to add in dry aggregates and cement.

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WORKABILITY

Master Plast SPL9M3 will retain the workability of concrete approx. up to 2 hrs @25°C. It retains the workability of concrete in proportion to the amount of product dosage used for trials. The workability loss is dependent on factors such as temperature, type of cement, type of aggregate, the initial workability of mix and methods of transportation of concrete etc.

It is recommended that concrete should be properly cured by adopting the suitable method of curing. The use of our curing compounds products Mastercure RB2M & Mastercure WB2M will prevent the early water loss from the surface of the flat works such as pavements in dry, windy and hot climates.

COMPATIBILITY

Compatible with all types of Portland cements, slag & pozzolans such as fly ash, Microsilica/ metakaolin. Master Plast SPL9M3 is compatible with other water reducing admixtures, air entrainers, retarders, accelerators, corrosion inhibitors when added separately in to the mix.

CORROSIVITY

Master Plast SPL9M3 has very low chloride ion content, so it will not promote the corrosion of reinforcing steel embedded in concrete.

PACKAGING

Master Plast SPL9M3 is supplied in 250 kg drums or in bulk as per requirements.

STORAGE & SHELF LIFE

Store the material in a cool & dry place.(preferably at @30°C temp.)Store under cover, out of direct sunlight and protect it from extremes of temperatures.

Shelf life is one year from the date of manufacturing when stored in undamaged, unopened, original sealed packaging.

HEALTH & SAFETY

If it comes in contact with skin, mouth, eyes etc, wash it with plenty of water & if needed take medical advice. If accidentally gets ingested seek immediate medical attention. It is non toxic.

Do not reuse the containers for storage of consumable items for further information refers to the material safety data sheet. MSDS available on demand.