

□ MASTERPLAST-SPL-195

SUPERPLASTICISER FOR CEMENT CONCRETE AND MORTARS



An ISO 9001-2000 Company

DESCRIPTION

Masterplast-SPL-195 is a high performance Superplasticiser based on Sulfonated Naphthalene Formaldehyde polymer design to allow considerable reduction of mixing water. It has a powerful dispersing and deflocculating effect on the particles of cement. It increases the workability of concrete with an added advantage of high early and long term strength. It allows concrete to be easily compacted with minimum vibrations.

FEATURES / ADVNTAGES

- Due to water reduction it increases not only early and ultimate compressive strength but strength of the concrete of all ages.
- It retains the workability of concrete.
- It improves finished appearance of concrete by minimizing honeycombed surface.
- It allows lowering of cement content without affecting the normal strength of the concrete.
- It does not contains chloride
- It can be used even for micro silica, fly ash and slag cement concrete.
- It reduces shrinkage and permeability of hardened concrete.
- It eliminates formation of cold joints between subsequent pours in mass of structural concrete
- It reduces the permeability & improves the durability of concrete.

USAGE

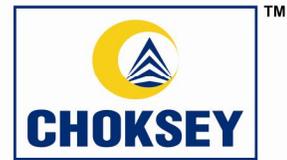
- It is widely used in ready mix concrete
- Precast concrete, Pumped concrete & long distance transporting
- Closely spaced areas, large bay areas, floor slabs, floor decks & other structures etc.
- Mainly used in situation where high workability is required.
- Pavement concrete & piling concrete.
- Structural concrete, concrete containing Microsilica/metakaolin.
- Bridge decks, highway concrete

TYPICAL PROPERITES

- Color & appearance : Dark brown low viscous liquid
- pH value : Min 6
- Relative density @ 25⁰C : 1.285 ± 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 Masterplast-SPL-195 is 0.4 to 1.6 % 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.

EFFECT OF OVERDOSAGE

An overdosing of Masterplast-SPL-195 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 Masterplast-SPL-195 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

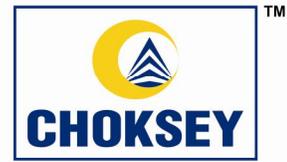
- Stir well the material before use.
- Masterplast-SPL-195 is ready to use liquid which is dispensed in to the concrete together with the mixing water.
- The dispersion effect is higher if it is added to the damp concrete after 60 to 70% of mixing water has been added.
- Not recommended to add in dry aggregates and cement.

WORKABILITY

- Masterplast-SPL-195 will retains the workability of concrete approx. up to 3 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.

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- 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. Masterplast-SPL-195 is compatible with other water reducing admixtures, air entrainers, retarders, accelerators, corrosion inhibitors when added separately in to the mix.

CORROSIVITY

- Masterplast-SPL-195 has very low chloride ion content, so it will not promote the corrosion of reinforcing steel embedded in concrete.

PACKAGEING

- Masterplast-SPL-195 is supplied in 5, 20,200 liters & 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.

DISCLAIMIER

- The above information and details herein are based on the tests conducted and experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area.
As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential non performance.