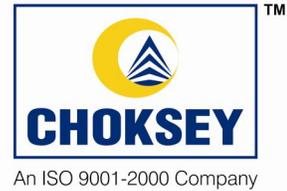


□ MASTERPLAST SPL-2

SUPERPLASTICISER FOR CEMENT CONCRETE AND MORTARS



DESCRIPTION

Masterplast SPL – 2 is a concrete super plasticizer and high range water reducing admixture. On addition to concrete it disperses the cement particles which enhance the workability.

FEATURES / ADVANTAGES.

- Non-foaming.
- Non-toxic.
- It does not contains Chlorides or Nitrates.
- It does not corrode the reinforcement.
- It improves workability of concrete, retains workability around 45 minutes.
- It gives High water reduction, which helps to achieve early strength
- It can be used at a high dosage without affecting setting time of concrete to get higher workability.
- It improves early as well as ultimate strength of concrete.

USAGE

- Precast concrete.
- Prestressed concrete.
- Readymix concrete.
- It is used more specifically in - Pavement concrete, Pumped concrete, Structural concrete, Bridge decks, highway concrete

TYPICAL PROPERTIES

- Colour & Appearance : Dark Brown low viscous liquid.
- pH value : Min 6
- Relative density @ 25°C : 1.230 ± 0.020 gm/cc
- Chloride content : 0.2% Max. As per IS 6925

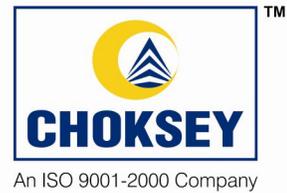
SPECIFICATION COMPLIES

Specification complies with:

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

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DOSAGE

Normal dosage range of Masterplast SPL-2 is 0.5 to 2.0 % by weight over cementations 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

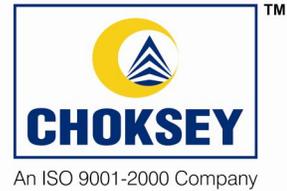
- An overdosing of Masterplast SPL-2 can result in the following.
- Delay of initial & final set of concrete.
- Increase in plastic shrinkage.
- Increase in air entrainment.
- Severe bleed & segregation of mix
- Due to slight overdosing of Masterplast SPL2 the ultimate compressive strength of concrete 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 SPL2 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

- Masterplast SPL-2 will retain the workability of concrete approx. up to 1 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. Masterplast SPL2 is compatible with other water reducing admixtures, air entrainers, retarders, accelerators, corrosion inhibitors when added separately in to the mix.

CORROSIVITY

Masterplast SPL2 has very low chloride ion content, so it will not promote the corrosion of reinforcing steel embedded in concrete.

PACKAGING

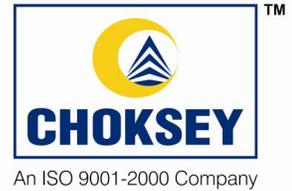
Masterplast SPL2 is supplied in 5, 20, 200 liters & 250 kg drums or in bulk as per requirements.

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.

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SUPERPLASTICISER FOR CEMENT CONCRETE AND MORTARS



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.

DISCLAIMER

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.