

# BSK FLUID SP – 151 M

## SUPER PLASTICIZER CUM HIGH RANGE WATER REDUCING ADMIXTURE

### Description

BSK FLUID SP 151 M is a super plasticizer cum high range water reducing admixture for concrete & mortars. It disperses whole particles in mix which create extreme fluidity in concrete & it retain for a longer time. It also provides very high water reduction. BSK FLUID SP 151 M conforms to specification prescribed in IS 9103 and ASTM C-494 Type A & F.

### Technical Data

|                  |                                |
|------------------|--------------------------------|
| Physical State   | : Brownish Free flowing liquid |
| Specific Gravity | : 1.20 ± 0.02                  |
| Solid Contains   | : 43%± 3%                      |
| Chloride content | : Nil                          |
| pH               | : 7-8                          |
| Air entrainment  | : <1.0% over control mix       |

### Composition

BSK Fluid SP 151 M is a brown free flowing liquid based on selected synthetic Sulphonated Naphthalene formaldehyde condensates. Chloride free.

### Benefits & Advantages

- ✓ Produce dense & more durable concrete which gives protection to steel against corrosion.
- ✓ Imparts extreme fluidity
- ✓ Increase retention time
- ✓ Produces low water cement ratio as it allow water reduction up to 20% to 30%
- ✓ Remarkable increase in both early and ultimate strengths.
- ✓ Chloride free, Reduced shrinkage & cracks. Also recommended for pre-stressed concrete
- ✓ Give stable Air – Void system, Rapid placing with no vibration
- ✓ Compacted durable concrete, resistant to extreme thermal
- ✓ Improved surface finish (fine finishing )

## Purpose

- To impart very high workability without the addition of extra water or to enable large water reductions to be made for higher early & ultimate strength. To improved surface finish, improved water tightness no adverse shrinkage effect especially suitable for congested & heavily reinforce concrete.
- It greatly produce flowing concrete with higher strength in comparison of normal strength this flow able concrete allows rapid placing of concrete with little or no vibration & makes the concrete denser for increased durability.

## Application / Area of usage

- Ready Mix Concrete
- Precast & pre-stressed concrete
- Pumping Concrete, mass concrete
- Heavily reinforced concrete,
- Highly slump, flow able concrete
- Floor slabs, foundation, walls, columns, beams, ceilings etc.
- In other civil construction like roads, bridges, tunnel, canal lining, paving, spun pipes etc.
- Low water/ cement concrete

## Compatibility

- It can be used with all types of PPC & OPC cement, SRC (Sulphate Resistance Cement), **GGBS (Slag)**, Fly Ash & Micro Silica

## Method of use

- It is added to part of the mixing (Gauging) water. It should not come in to contact with dry cement.
- Before add this admixture you should first check the water absorption as well as moisture content and make correction accordingly in your mix design to get the best desire results.
- Take all the concrete materials as per the design in the proper order in to the mixer with about 65 to 70% of the mixing water and mix for 3-4 minutes. Add balance quantity of water with admixture to obtain the required slump and mix for 3 -4 additional minutes.

## Dosage

0.4% to 1.8% by weight of cement. It is advisable to carry out plant trials to know the exact optimum dosage rate depending up on the SSD condition as well as require retention, workability etc. Overdosing should be avoided. Due to over dosing setting time will be extended & it may produce concrete which may to segregate would retard setting of concrete.

## Packing

Available in 50, 100, 250 kgs Drums or in bulk quantity (tanker load)

## Healthy & safety

- BSK Fluid SP 151 M is a non- toxic
- If its direct contact with our skin or body or Any splashes on the skin should be washed immediately with normal water
- If splashes on the eye then eye should be washed immediately with normal water or seek medical advice

## Storage

Store cool, dry place under shed or store room away from heat, frost and keep unopened condition.

## Shelf life

BSK Fluid SP 151 M has a shelf life of one year in original packing unopened condition protect from direct sunlight & frost.