



Super Plasticizer for Concrete with built-in Biocytes. Used in Concrete construction for improvement in workability & water reduction. To reduce the water/cement ratio in order to improve hardened concrete properties. It also acts as a water reducing and retarding admixture at higher dosages. It disperses instantly in the gauging water and forms a film on the cement particles. It is highly effective set retarder.

ADVANTAGES:

- Improved workability. • Improves compressive strength. • Saving in cement. • Liquid admixture ensures homogeneous mixing.
- Reduces water/cement ratio. • Low dosage thus economical.
- Retards concrete setting. • More time is available between continuous pours. • Avoids cold joints. • Lowers rebound losses.
- Prevents shrinkage cracks. • Versatile product, multiple uses.
- Improves adhesion and durability of the plaster.

CONSUMPTION & COVERAGE

Dosed between 0.6% to 1% by weight of cement. The dosage can be increased upto 2% in order to extend workability time at higher temperatures.

HOW TO USE

It is dosed in the mixing water which is then added into the mix subsequently.

In cement concrete phenomenon of SPC 90 is observed as under :

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| 1. Type of Cement Mix | - | PPC |
| a. Normal Consistency | - | 30% |
| b. Initial Setting Time | - | 126 min |
| c. Final Setting | - | 186 min |
| d. Degree of Control | - | Good |
| e. Degree of workability | - | High |
| 2. Cement to aggregate ratio | - | 1:4.66 |
| 3. Water Ratio | - | 0.45 |
| 4. SPC 90 (Plasticizer Ratio) | - | 0.5% by wt. of cement |
| 5. Workability of concrete (slump) | - | 75 mm |
| 6. a. Compressive strength of Concrete | | |
| characteristic at 28 days | - | 300 kg/cm ² |
| b. Strength of design mix | | |
| concrete at 28 days | - | 385 kg/cm ² |
| c. Increment in design mix to characteristic | | |
| concrete at 28 days | - | 85 kg/cm ² |