



LayPlast PC

Concrete High Range Super Plasticizer ASTM C494

PRODUCT DESCRIPTION: LayPlast Polycarboxylate superplasticizer (PC) is a new generation super- plasticizer based on polycarboxylate technology, This product was designed to produce super high-strength, flowable and self-consolidating concrete in a variety of applications

USES: LayPlast PC makes a high slump non-segregating workable mix with over 25% less water, more than 15 cm of slump reduction and yields a stronger, less permeable and more durable concrete. It is used in Ready mix, Precast, block and other paver and job site plants.

ADVANTAGES: LayPlast PC is particularly effective when used in difficult wall placements of narrow forms sections or embedded items. It is also advantageous for pumping into high elevations and fast placement of concrete.

LIMITATIONS: Do not overdose.

COMPOSITIONS AND MATERIALS: is an aqueous solution of Polycaroxylate which promotes complete hydration of Portland cement. It does not contain calcium chloride.

PACKAGING: Packed in 200 kg Drums.

TECHNICAL DATA: As a superplasticizer, LayPlast PC lessens the particle attraction between cement particles in water. It does this by adsorption on the cement particles thus reducing their tendency to clump together and makes the mix more workable with less water. As a catalyst in concrete it provides a more complete hydration of the cement. LayPlast PC increases the gel content of the concrete, and this adds to the water retention and internal cohesiveness of the mix, reducing bleeding and segregation as it increases workability, pumpability and placeability. LayPlast PC causes a slight delay in the setting time. Concrete mix shall be designed in accordance with the Standard Recommended Practice for Selecting Proportions of Concrete, ACI 211.1.

Performance: At Dosage 0.2% (wt.% of cement)

Cement Paste Flow (mm): >240

Water Reducing Of Mortar: >25%

Compression Strength % Ratio:

1 Day: ≥ 170

3 Days: ≥ 160

7 Days: ≥ 150

21 Days: ≥ 130

Slump Retention(60min) mm: ≥ 150

Dose: Excellent results are obtained using addition rates of 120 to 300 mL of LayPlast PC per 100 kg of cement. In some cases it may be necessary to adjust the dose due to cement, aggregates or job site conditions. Re-dosing is possible to regain the plasticity of the mix.



Mixing: Admixture is supplied ready to use. No mixing is required at job site.

Addition: Dispense using automatic equipment or manual addition. Add to the concrete mix water.

Precautions: Avoid contact with skin. In case of contact, wash thoroughly with water. For eyes, get medical attention. Keep out of reach of children. It is non-flammable.

Cleaning: In case of spill wash with water.

Storage Life: One year if stored in cool location. Close partially used containers tightly.

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