



# LayPlast SP

## Concrete High Range Super Plasticizer ASTM C494 Type G

**PRODUCT DESCRIPTION:** LayPlast SP is an aqueous chemical admixture that significantly improves the plasticity of concrete while reducing the amount of water needed for hydration and increasing strength. It is manufactured under rigid control that provides uniform, predictable performance. It is supplied as a dark brown, low viscosity liquid, ready to use as received.

**USES:** LayPlast SP 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 SP is particularly effective when used in difficult wall placements of narrow forms sections with blockouts, penetrations, or embedded items, pumping high vertical distances, fast placement of concrete and increased lift heights and free fall distances

**LIMITATIONS:** Do not overdose.

**COMPOSITIONS AND MATERIALS:** is an aqueous solution of modified Naphthaline sulfonates containing a catalyst which promotes more complete hydration of portland cement. It does not contain calcium chloride.

**PACKAGING:** Packed in 200 kg Drums.

**TECHNICAL DATA:** As a superplasticizer, LayPlast SP lessens the particle attraction between cement grains 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 cement catalyst, effects a more complete hydration of the cement. LayPlast SP 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 SP 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.

**Dose:** Excellent results are obtained using addition rates of 190 to 750 mL of LayPlast SP per 100 kg of cement. In some cases it may be necessary to adjust the dose due to cement, aggregates or job site conditions. Redosing 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:** This product is a mild irritant. 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.

*Email: [laymaster@laymaster.net](mailto:laymaster@laymaster.net)  
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