



SASPlast SP60B

High range water reducing Superplasticizer for high workability, Set controlling & superior strength concrete.

PRODUCT DESCRIPTION

SASPlast SP60B is a naphthalene sulphonate and lignosulphonate based liquid superplasticizer for high performance concrete. SP60B is specially formulated to impart high workability with low slump loss to concrete mixes. Hence use of SP60B gives high workability, good slump retention without significantly affecting the initial and final strength. SP60B could effectively be used for hot weather concreting.

SP60B could be used to affect considerably water reduction resulting high performances both in plastic and hardened state of concrete.

SP60B is a powerful dispersant and the deflocculating action helps to produce high performing concrete where durability and high strength are the major requirement. High dispersing action of SP60B produces high flow concrete, which will reduce the need for compaction.

AREAS OF APPLICATION

- Highly Flowable Concrete especially recommended for Deep foundations such as piles, piers.
- Ready mix concrete with low water to cement ratio.
- To produce durable and low permeable concrete.
- For high workability, super flow with pumping properties

- To produce higher concrete classes by saving a considerable amount of cement.
- For Hot weather concreting (Reduce the incidence of cold joints).

BENEFITS

- High workability and superior flow properties reduce the need for compaction.
- Workability retention for longer period helps hot weather and long haul concreting.
- Suitable for highly reinforced and Precast Prestressed concrete due to high flow characteristics... and also it is chloride free.
- Low water cement ratio results in high early and ultimate strength.

COMPATIBILITY

SP60B is compatible with all types of Portland cements, SRC cements and other cementitious materials including PFA, GGBS and microsilica.

SP60B is compatible with all SAS concrete admixtures.

All SAS admixtures should be added separately to concrete. Do not mix different admixtures prior to addition.

SP60B does not entrain any air voids into the concrete but even reduces them.



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TECHNICAL PROPERTIES

Specific Gravity	:	1.19 ± 0.03@ 25°C
Appearance	:	Dark Brown Liquid
Air Entrainment	:	1 - 2% depending on Dosage
Chloride Content	:	Nil - Tested to B.S. 5075
Freezing	:	0°C, Mix before use

CONFORMITY

SP60B confirms to following standard.

ASTM C - 494 - Type G, B.S 5075 – Part 1 and
ASTM C - 1017

DOSAGE

Recommended dosage range 0.5 – 4.0 % of cement weight. The actual dosage rate applied can exceed the recommended dosage range on common mix design and should be determined in preliminary tests.

Further regulations on maximum dosage rates should be observed.

METHOD OF ADDITION

SP60B is supplied as a ready to use brown liquid. SP60B can be added to concrete in the mixing cycle after the addition of 80% water or it can be added along with the gauging water. Care must be taken not to add SP60B to dry mix.

SP60B can also be added a few minutes before the actual pouring of concrete for plasticizing effect.

EFFECTS OF OVER DOSAGE

- Results in increased workability.
- Slightly higher entrainment.
- Delayed setting.

Reason for over dosage must be ascertained to avoid recurrence. Anyway, over dosing will not adversely affect the overall performance of the concrete mix, provided proper curing to be done. Also form work removal should be delayed to allow the setting. In most cases the compressive strength is more than compared to the controlled concrete.

SP60B preferably dispensed by using automatic dispensing equipment.

HEALTH & SAFETY

SP60B is non-hazardous. It is always advisable to avoid contact with skin or eyes. If contact with skin wash with water. Wear protective goggles and hand gloves while handling. If swallowed seek immediate medical attention.

PACKING & STORAGE

SP60B is available in 210 Litre and in bulk to site installed storage tanks. SP60B should be stored in cool, shaded warehouses. Shelf life is 12 months. Before using, homogenize sample by shaking or mixing with a mixer.

After thawing, the product must be used after mixing.