

SASplast SP60

Superplasticizer for high workability, slump retaining & superior strength concrete.

PRODUCT DESCRIPTION

SASPlast SP60 is a naphthalene sulphonate based liquid superplasticizer for high performance concrete. SP60 is specially formulated to impart high workability to concrete mixes. SP60 converts stiff concrete to flowable concrete due to its high workability. Performances of SP60 also gives excellent slump, retention properties without effecting the setting time. Hence use of SP60 gives high workability, good slump retention without unbalancing the initial and final strength. SP60 thus could effectively be used for hot weather concreting.

SP60 could be used to affect considerably water reduction resulting high performances both in plastic and hardened state of concrete.

SP60 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 SP60 produces high flow concrete, which will reduce the need for compaction. SP60 can be used for self-compacting concrete very effectively.

AREAS OF APPLICATION

- High Flow Concrete, recommended for pile.
- Site batched and ready mix concrete.
- To produce durable and low permeable concrete.
- Fumed silica and PFA modified concrete.
- Concrete with GGBS (Ground) granulated Blast Furnace Slag), Hot weather concreting.

- Long Haul concrete.
- For high workability, super flow with pumping properties.

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 early high ultimate strength.
- Slump retention and high flow have no effect on initial & final set.

COMPATIBILITY

SP60 is compatible with all types of Portland cements, SRC cements and other cementations materials including PFA, GGBS and microsilica.

SP60 is compatible with all SAS concrete admixtures.

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

SP60 does not entrain any air voids into the concrete but even reduces them.

The setting behavior of the concrete is not impaired.



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TECHNICAL PROPERTIES

Specific Gravity	:	1.22 ± 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

SP60 confirms to following standard.

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

DOSAGE

Recommended dosage range 0.5 – 2.5 % 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

SP60 is supplied as a ready to use brown liquid. SP60 can be added to concrete in the mixing cycle after the addition of 90% water – or can be added along with the gauging water. Care must be taken not to add SP60 to dry mix. SP60 can also be added a few minutes before the actual pouring concrete.

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 normal concrete.

SP60 preferably dispensed by using automatic dispensing equipment.

HEALTH & SAFETY

SP60 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

SP60 is available in 210 Litre and in bulk to site installed storage tanks. SP60 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.