Tel:+251 96 621 6550 /51 ,+251949080808, +25178222222/www.sasconchemicals.com

# SASPlast SP200

Mid-Range Water Reducing, Slump Retaining and Retarding Admixture

## PRODUCT DESCRIPTION

SASPlast SP200 is Mid-Range Water Reducing, Slump Retaining and Retarding admixture based on specially selected and blended organic polymers. SP200 can transform plastic concrete into soft concrete without impairing the water to cement ratio without significantly affecting the initial and final setting time.

SASPlast SP200 disperses the fine particles in the concrete mix,enabling the water content of the concrete to perform more effectively.

SASPlast SP200 is especially suitable for hot weather concreting. Extended vibration limits and improved trowellability properties are reduced during the incidence of cold joints.The surface finishing of concrete is improved.Concreting of areas where cold joints should be avoided.

## AREAS OF APPLICATION

- Highly Flowlable Concrete especially recommended for Deep foundations such as piles,piers.
- Ready mix concrete with low water to cement ratio and good slump retention.
- Free flowing concrete can be produced to improve compaction and reduces areas of honey combing.
- It provides good pumpable concrete for Hot weather concreting.
- For Hot weather concreting (Reduce the incidence of cold joints).

## BENEFITS

- Controlled retardation extends workability and stiffening time for ease of construction.
- Workability retention for few hours helps to reduce the slump loss in case of Hot Weather and Long Haul Concreting (Not less than one and half hours depending on the dosage applied, ambient temperature, quality of Ingredients and Mix Design)
- Used in production of flowing concrete with lower pumping pressure.
- Low water to cement ratio increases the ultimate Strength of the concrete.

## COMPATIBILITY

SP200 is compatible with all types of Portland cements, SRC cements and other cementitious materials including PFA, GGBS and microsilica.

SP200 is compatible with all SAS concrete admixtures except **Napthalene based**.
All SAS admixtures should be added separately to concrete. Do not mix different admixtures prior to addition.

# SASPlast SP200

Mid-Range Water Reducing, Slump Retaining and Retarding Admixture

## TECHNICAL PROPERTIES

| | | |
|---|---|---|
| Specific Gravity | : | 1.12 ± 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

SP200 confirms to the following standard.

ASTM C - 494 - Type A,D & G, B.S 5075 – Part 1 and 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 determinated in preliminary tests.
Further regulations on maximum dosage rates should be observed.

## METHOD OF ADDITION

SASPlast SP200 is supplied as a ready to use dark brown liquid.SP200 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 SP200 to dry mix.

SASPlast SP200 can also be added a few minutes before the actual pouring of concrete for plasticizing effect with lower dosage.

## EFFECTS OF OVER DOSAGE

- Results in increased workability
- Slighlty higher entrainment
- Delayed Setting

Reason for overdosage must be ascertained to avoid recurrence.Anyway, overdosing will not adversely affect the overall performance of the concrete mix, provided proper curing to be done.Also formwork removal should be delayed to allow the setting.In most cases the compressive strength is more than compared to controlled concrete.
SP200 preferably dispensed by using automatic dispensing equipment.

## HEALTH & SAFETY

SP200 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

SP200 is available in 200 Litre and in bulk to site installed storage tanks. SP200 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.