

MYK SAVEMIX SP 200

High performance water reducing and superplasticising admixture for high grade and micro-silica concrete.

Description

MYK Savemix SP200 based on Sulphonated Naphthalene Polymers and is supplied as a brown liquid instantly dispersible in water.

MYK Savemix SP200 has been specially formulated to give water reductions upto 25% without loss of workability or to produce high quality concrete of reduced permeability.

Uses

- To produce pumpable concrete
- To produce high strength, high grade concrete by substantial reduction in water resulting in low permeability and high early strength.
- To produce high workability concrete requiring little or no vibration during placing.

Advantages

- **Improved workability**- Easier, quicker placing and compaction.
- **Increased strength** - Provides high early strength for precast concrete if water reduction is taken advantage of.
- **Improved quality**- Denser, close textured concrete with reduced porosity and hence more durable.
- **Higher cohesion**- Risk of segregation and bleeding minimized; thus aids pumping of concrete
- **Chloride free**- Safe in pre-stressed concrete and with sulphate resisting cements and marine aggregates.

Standards Compliance:

MYK Savemix SP200 complies with IS: 9103:1999 and BS 5075-Part 3 and ASTM-C-494 Type 'G'

Compatibility: Can be used with all types of cements except high alumina cement. MYK Savemix SP200 compatible with other types of MYK admixtures when added separately to the mix. Site trials should be carried out to optimise dosages.

Workability: Can be used to produce flowing concrete that requires no compaction. Some minor adjustments may be required to produce high workable mix without segregation.

Cohesion: Cohesion is improved due to dispersion of cement particles thus minimizing segregation and improving surface finish.

Compressive strength: Early strength is increased upto 40 to 50% if water reduction is taken advantage of. Generally, there is improvement in strength upto 20% depending upon W/C ratio and other mix parameters.

Durability: Reduction in W/C ratio enables increase in density and impermeability thus enhancing durability of concrete.

Application Instructions:

Dosage: Trials need to be carried out at site to determine the exact dosage of the admixture for the particular mix design and materials. However for normal grades of concrete a dosage from 0.5% - 1.0% by weight of cement is recommended, the dosage may be increased to 1.5% to achieve specific slump requirements. For microsilica concrete where a high amount of water reduction and slump retention are required, trials need to be carried out to arrive at the correct dosage, as the dosage may increase up to 2.0% or even up to 2.5% by weight of cement depending on mix design and performance required.

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Properties

Specific gravity	1.230 - 1.270 at 27°C
pH at 27°C	7.0 - 8.0
Chloride content	Nil to BS:5075
Air entrainment	Approx. 1% additional air is entrained

Dispensing

The measured quantity of MYK Savemix SP 200 should be added along with the gauging water. For best results, add MYK Save-mix SP200 in the last phase after prewetting the mix with 80% of the total water required.

Mix Design:

MYK has an advisory service on Concrete Mix Design and can be contacted if assistance is required.

Packing:

MYK Savemix SP 200 is supplied in 250 Kgs drums.

Storage:

MYK savemix SP200 has a minimum shelf life of 12 months when stored under normal temperatures. It should be protected from extreme temperatures and preferably stored in shade.

Use at other dosages:

Dosages outside the typical ranges quoted above can be used to meet particular requirements. Contact MYK for advice.

Overdosage:

An overdose of above the recommended level of admixture may result in high workability, slight increase in air entrainment and retardation of setting time. The ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete if properly placed and cured.

Precautions**Health & Safety**

MYK Savemix SP200 is non-toxic. Any splashes on the skin should be washed immediately with water. Splashes to the eyes should be washed immediately with water and medical advice should be sought.

Fire

MYK Savemix SP200 is non flammable.

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