

REC PLAST SP133 HHC

WATER-REDUCING & RETARDING ADMIXTURE

DESCRIPTION

REC PLAST SP133 HHC is a multi-component admixture which is carefully formulated to enhance the quality and performance characteristics of plastic and hardened concrete. Its unique chemistry results in complete and more efficient hydration of the cementitious materials in the concrete matrix, and provides improved durability, finishability and overall appearance. It does not contain calcium chloride or any other chemicals which could be harmful to the durability of reinforced concrete. **REC PLAST SP133 HHC** may be used to reduce the water content whilst retaining the same workability resulting in higher strengths. **REC PLAST SP 133 HHC** can also improve the cohesion of concrete mixes based on poor quality materials having a higher water demand.

PRIMARY APPLICATIONS

REC PLAST SP 133 HHC is ideal to use in hot-weather conditions where the slump retention over time is important for transportation. It has following applications:

- Transported concrete
- Pipe prefabrication
- General reinforced concrete
- Ready-mix concrete
- Heavy prefabrication
- Pumped concrete.

FEATURES/BENEFITS

REC PLAST SP 133 HHC:

- Improves the quality of concrete by decreasing water cement ratio for a given workability
- Increases ultimate compressive and flexural strengths
- Provides superior concrete finishability
- Improves workability and ease of placement and consolidation
- Improves pumpability of concrete
- Provides uniform control of setting characteristics
- Reduces cracking and shrinkage
- Increases relative freeze-thaw durability
- Allows the retention of the original slump over time in addition to the normal properties of a plasticizer.
- Reduces segregation and bleeding.

COMPATIBILITY

REC PLAST SP 133 HHC is compatible with all types of Portland cement, and fly ash, microsilica, ground granulated blast furnace slag, calcium chloride, fibers and accelerating, retarding, and high-range water-reducing admixtures. **REC PLAST SP 133 HHC** can be used in all white, colored, and architectural concrete.

For best results, each admixture must be dispensed separately into the concrete mix.

STANDARDS

REC PLAST SP 133 HHC complies with ASTM C 494 Types A & D.

TECHNICAL INFORMATION

Color	Brown liquid
Specific gravity	1.10 ± 0.04
Chloride Content (BS 5075)	Nil

Air entrainment	Typically, less than 2% additional air is entrained above control mix at normal dosages
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DIRECTIONS FOR USE

REC PLAST SP133 HHC is totally miscible in water. It is to be added to the concrete mixture during the mixing cycle at the same time as the water. No extension to normal mixing time is required.

DOSAGE

Trials should be conducted to determine the optimum dosage of **REC PLAST SP133 HHC** for a particular mix. A dosage of 600 to 2500 ml per 100 kg of cement is recommended. This may be changed to higher dosage in high ambient and mixture temperature conditions.

At temperature below 20°C, preliminary tests should be carried out for dosages higher than 1%.

EFFECT OF OVER DOSING

Severe over dose of **REC PLAST SP133 HHC** will result in the following:

- Delay of the initial and final setting of the concrete mixture
- Increased workability

Providing it is properly cured, the ultimate strength of the concrete will not be adversely affected and will generally be higher than that of the normal concrete.

DISPENSING

It is preferable that liquid admixtures for concrete should be introduced into a mixer by means of automatic dispensing equipment

PACKING

REC PLAST SP133 HHC is available in pails, drums and bulks supply on request.

STORAGE

REC PLAST SP133 HHC has a shelf life of 12 months from date of manufacture if stored at temperatures between 10°C and 25°C.

If these conditions are exceeded, Reckon Technical Department should be contacted for advice.

HEALTH & SAFETY

REC PLAST SP133 HHC is not classified as hazardous material. **REC PLAST SP133 HHC** should not come into contact with skin and eyes.

In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly. For further information refer to the Material Safety Data Sheet.

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RECKON CHEMICALS PRIVATE LIMITED
21 CCA, BLOCK B, KHAYABAN-E-AMIN, LAHORE
Toll: +92-42-35452620, +92-42-35230419
Web: www.reckonchemicals.com
Email: Info@reckonchemicals.com

