

Proset M

Liquid concrete accelerator



Description

Proset M is a set accelerating, chloride free admixture used for sprayed concrete, shotcrete and gunite processes.

Advantages

- ▲ Rapid set allows thick sections to be built-up.
- ▲ Minimum rebound.
- ▲ Single pass spraying for thick layers.
- ▲ Excellent for overhead applications.

Standards

Proset M complies with ASTM C1141, Type I and II, Grade 9, Class A.

Compatibility

Proset M can be used with all types of Portland cement and cement replacement materials.

Proset M is compatible with other DCP admixtures when used in the same concrete mix. If more than one type of admixture is to be used in the concrete mix, they must be dispensed to the concrete separately.

Method of Use

Stiffening occurs approximately after 10 seconds of mixing concrete with Proset M. As with all other processes and products, the rapid initial acceleration of the cement hydration process, will affect the ultimate concrete strength.

Dosage

The optimum dosage for Proset M to meet specific requirements should be determined by trials using the materials and conditions that will be experienced in use. This can best determine the optimum dosage to be used and will ensure most cost effective site application. The typical dosage range for Proset M is 5.0 - 20.0 litre per 100 kg of cementitious and cement replacement material, including PFA, GGBFS or microsilica, which can be used as a starting point for the trials.

Technical Properties @ 25°C:

| | |
|------------------------------|-------------------|
| Colour: | Pale straw liquid |
| Specific gravity: | 1.27 ± 0.05 |
| pH: | 10 - 13 |
| Chloride content: BS 5075 | < 0.1% |

Use at Other Dosages

Dosages outside the typical range quoted above may be used if necessary to meet particular mix requirements. Compliance with requirements must be assessed through trial mixes. For further information and support, contact DCP Technical Staff.

Effects of Over Dosage

An overdose of the intended amount of Proset M will result in reduced setting of the mix and will result in some loss of strength.

Dispensing and Mixing

Proset M is normally introduced directly after the air ring in the spray nozzle. In order to obtain a consistent supply of admixture at the nozzle the delivery system should have a 600 kPa pressure pot, and a 20 mm inside diameter pressure delivery hose controlled by a pressure restrictor and tap.

With 'wet process' the use of a water reducing admixture to reduce the water content while increasing workability of the mix is recommended.

Cleaning

Proset M can be washed with fresh cold water.

Packaging

Proset M is available in 210 litre plastic drums and 1000 litre bulks supply.

Storage

Proset M has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

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

Cautions

Health and Safety

Proset M is alkaline and it 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.

Fire

Proset M is nonflammable.

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Don Construction Products Qatar W.L.L

New Industrial Area, Street 21,
Zone 81, bldg. # 9
Doha - Qatar

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