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Asian Laboratories

88, NEW OKHLA INDUSTRIAL COMPLEX, SCHEME-I, D.S.I.D.C. SHED, PHASE II, NEW DELHI - 110 020

MONOSET-SUPER 6 (L)



LIQUID ADMIXTURE FOR WET SHOTCRETING

PRODUCT :

MONOSET SUPER 6L is a ready to use accelerator in liquid form which is added to the wet shotcreting at the nozzle to reduce the rebound loss.

MONOSET SUPER 6L is a chloride free modified Sodium Silicate based admixture. It reacts with cement in the mix, assisting the hydration process and kills the slump of flowing concrete to zero. It makes the concrete cohesive enough to stick to the surfaces.

ADVANTAGES :

- ★ Fast setting and high early strength than with shotcrete without set accelerators.
- ★ Increased layer thickness possible.
- ★ Low viscosity.
- ★ Easy to mix in to the concrete also at low temperatures.
- ★ Reduced dust production.
- ★ Achieves higher final strengths and more durable shotcrete as compared with traditional accelerators.
- ★ Low alkalinity compared to aluminates.

SPECIFICATION :

Form	: Liquid
Colour	: Transparent
Density (at+20°C)	: 1.35 ± 0.01
pH Value	<11.5
Viscosity (at+20°C)	30-70 mPas (cps)
Solubility in water	total
Thermal stability	+ 5°C.
Chloride Content	<0.1%

METHOD OF APPLICATION :

Preparation of Substrate :

The substrate must be clean and free from loose particles and only wet to lightly sprinkled.

Mixing :

Cement : Fresh standard portland cement should be used because the reaction time is increased by prolonged storage. Preliminary tests are recommended for cement having low C3A contents (< 5%).

Aggregates :

Favourable granulometric structure and sand quality are very important for high strength values of the applied shotcrete. Aggregates passing 8mm should be used to reduce the rebound from vertical surfaces.

The concrete (350 - 550 kg. of cement per m³) transported by using pump. **MONOSET SUPER 6L** is introduced into the compressed air which is added at the nozzle.

CONSUMPTION :

The required setting time and hence the necessary dosage are determined by the type of substrate and its water runoff. Dosage has also to be adjusted to the temperature of the substrate and the sprayed material, and to the reaction time of the cement. According to the required setting time, the consumption of **MONOSET SUPER 6 (L)** ranges between 3-8% of the binder weight. Overdosing (>8%) can cause increased reduction in final strength.

PACKING

MONOSET SUPER 6(L) is supplied in 250 kg M.S. Barrel.