

# Asian

# Laboratories

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## MONOSET HP-90

### PRODUCT INFORMATION



### HIGH PERFORMANCE ADMIXTURE FOR WET SHOT CRETING (SECOND COMPONENT)

#### PRODUCT:

**Monoset-HP-90** is a ready-to-use accelerator and waterproofing agent in liquid form which is added to the wet shotcreting at the nozzle to reduce the rebound loss.

**Monoset-HP-90** is a chloride free polymer base compound. 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:

- \* Superior in performance than normal silicate accelerator.
- \* Makes flowing concrete to zero slump concrete.
- \* Simplifies overhead spraying.
- \* Reduces dust production.
- \* Rebound loss is reduced significantly.
- \* Secondary fall is zero.
- \* Instantly kills the slump to make concrete cohesive.
- \* Minimum strength loss at 28 days.

- \* Improves water tightness.
- \* Makes concrete dense.
- \* Compatible with all types of cements.
- \* Low alkalinity. Satisfies requirements of I.S: 456 for Alkal: Reactive Aggregates.
- \* Excellent shotcreting component for fibre Reinforced shotcreting.

#### BETTER ADHESION TO WET AND DAMP SUBSTRATE.

**Monoset-HP-90** is a second compound of the admixture while using wet shotcreting. The first component is Cement-SP 400. Cemwet-SP-400 is a third generation concrete admixture which is different than normal superplasticizers.

Cemwet SP-400 makes the flowing concrete homogenous and cohesive even with low cement content and sand having lack of fines. The product maintains workability upto two hours without retardation to the concrete. The first component is added along with the cement, sand aggregates and the flowing concrete is transported to the site.

The second component **Monoset HP-90** is added at the nozzle point of wet shotcreting machine which instantly kills the slump and concrete sticks to the substrate reducing the rebound loss.

### **DOSAGE:**

The dosage range is from 4 to 7% generally, the dosage of 7% is adequate depending on the requirement of setting.

Maximum dosage upto 12% can be added in the mix. The quantity is adjusted during shotcreting to achieve the optimum results.

### **ECONOMICAL BENEFITS:**

1. Overall cost of shotcreting is reduced by more than 10%.

2. Quality of concrete/mortar is improved and more dense concrete/mortar is produced.
3. Long term strength is increased significantly.
4. Durability of concrete/mortar is increased.
5. Open time is longer as such finishing of final lining can be done, effectively.
6. Secondary fall after placement at the crown of the tunnel/overhead spring is zero.

### **PACKING :**

220 kg or in Tankers



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N.B.- This information is given in good faith, is based on results gained from experiences and tests. However, all recommendations or suggestion are made without guarantee since the conditions of use are beyond our control.