MC-Montan Shotcrete HA 01

Accelerator for sprayed concrete

Product Properties

- Alkali-free
- Causes fast setting
- Little reduction of the final strength
- Accelerates the work-process by allowing a layer-thickness of 15 to 20 cm per work-step
- Reduces dust-formation
- Possible acceleration of concrete with a higher consistency
- Liquid

Areas of Application

- Shotcrete applied by dry- or wet-spraying
- Stabilization in tunnel construction and mining
- Temporary rockface-stabilizations
- Hillside stabilizations

Application Notes

MC-Montan Shotcrete HA 01 is a liquid, alkali-free setting accelerator for shotcrete applied by dry- or wet-spraying.

The dosage depends on the concrete- and ambient temperatures, as well as on the desired curing-behaviour and the reactivity of the used cement. Overdosing can lead to delayed curing and to reduced early and final strengths.

To achieve an optimal result we recommend the use of fresh Portland-cement.

Other criteria for the effectiveness are the type and composition of the aggregates and additives, as well as the water/cement value.

MC-Montan Shotcrete HA 01 is added at the nozzle. Piston pumps are not suitable for dosing. No filter must be used for the suction tube, to avoid blockage. A constant and accurate dosing must be ensured.

To facilitate dosage it is recommended to agitate

MC-Montan Shotcrete HA 01 with pressurized air beforehand, as the material is self-thickening, or rather has a tendency to sedimentation after long-term storage.

Before MC-Montan Shotcrete HA 01 is used, the entire dosing equipment must be thoroughly cleaned with a lot of water. During concreting and work breaks the system must remain closed to avoid blockage.

MC-Montan Shotcrete HA 01 must not be stored in steel-containers. The storage-containers must be closed tightly to avoid the evaporation of the water and resulting film-formation on the surface.

All necessary suitability tests must be performed before use. Please note the "General Information on the Use of Concrete-Admixtures".

The "MC-Business Unit Tunnelling" is available for individual consultation and optimization of the application on site.

Technical Data for MC-Montan Shotcrete HA 01

Characteristic	Unit	Value	Comments
Density	kg/dm^3	approx. 1.42	± 0.03
Recommended Dosage	ml	40 - 60	per kg of cement
Allowed Dosage for Shotcrete according to DIN 18551	ml	70	per kg of cement

Product Characteristics for MC-Montan Shotcrete HA 01

Type of Admixture	shotcrete accelerator EN 934-5: T 2
Name of Admixture	MC-Montan Shotcrete HA 01
Colour	white
Consistency	liquid
Factory production control	according to DIN EN ISO 9001 / DIN EN 934-2/6
Certificate of Conformity of the factory production control	0754-CPR
Notified Authority	MPA, Karlsruhe
Colour Code	green
Storage	Can be stored for 6 months in tightly closed containers at temperatures between +5 °C to +30 °C.
Form of Delivery	230 kg barrels containers 1,000 kg

Property specifications are based on laboratory tests and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.