

MC-Montan Shotcrete HA 01

Admixture 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

AREAS OF APPLICATION

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

APPLICATION ADVICE

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 VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm ³	approx. 1.42	± 0.03 kg/dm ³
Recommended dosage range	mass %	approx. 4 - 10	
Type of admixture	shotcrete accelerator per EN 934-5: T2		
Designation of admixture	MC-Montan Shotcrete HA 01		
Colour	Beige		
Form	liquid		
Notified body	Karlsruher Institut für Technologie (KIT) Materialprüfungs- & Forschungsanstalt, MPA Karlsruhe, Notified Body number: 0754		
In-company production control	EN ISO 9001, EN 934-2/6		
Storage	Can be stored in original sealed packages at temperatures between 5°C and 30°C in dry conditions for at least 6 months. Can be stored in cool and dry conditions for at least 12 months in original unopened packs.		
Colour code of label	green		
Delivery form	230 kg drums 1,000 kg container		

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2300018527]