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MasterRoc[®] SA 430

Liquid sprayed concrete accelerator for wet-mix spraying

Product description

MasterRoc SA 430 is an accelerator for the wet-mix spraying process, but can also be used in the dry-mix spraying process. It is a liquid additive whose dosage can be varied to the desired setting and hardening times.

Fields of application

MasterRoc SA 430 is suitable for all applications where high early strength and very thick sprayed concrete layers are required.

- For temporary ground support in tunneling and mining
- Slope stabilization
- Repair works

Features and benefits

- Fast setting and higher early strength
- Rapid work progress
- Low viscosity
- Easy to mix into the concrete, also at low temperatures
- Low consumption

Packaging

MasterRoc SA 430 is supplied in IBCs or in bulk.

Technical data

Form	Liquid
Color	Transparent
Density (at +25°C)	1.34 ± 0.02
pH value	11 ± 1
Chloride content	<0.2%

Application procedure

The substrate must be clean and free from loose particles and preferably damp. Fresh standard Portland cement should be used because the reaction time is increased by prolonged storage. Preliminary tests are recommended for cements providing high sulphate resistance.

Aggregates: Favourable granulometric structure and sand quality are very important for high impermeability and strength values of the applied shotcrete.

The concrete (350-550 kg of cement per m³) is batched in the concrete mixer and applied by means of a screw or piston machine. MEYCO SA 430 is introduced with a proportioning pump into the compressed air which is added at the nozzle.

Consumption

The consumption of MasterRoc SA 430 also depends on the w/c+b ratio, temperature conditions (concrete and ambient), cement reactivity and on required layer thickness, setting time and early strength development. The consumption is normally in the range of 3 to 8% of binder weight.

Overdosing (>8%) may result in decreased final strength.

Storage

Storage temperature for MasterRoc SA 430 is between + 5°C and + 60°C. If it has frozen, thaw at +20 °C or above and completely reconstitute with a mild mechanical agitation. Please contact your local BASF representative prior to the use of any product that has been frozen. Performance tests should always be carried out before use. If stored tightly closed in original containers and under the above conditions, MasterRoc SA 430 has a shelf life of at least 12 months.

Safety precautions

MasterRoc SA 430 is an irritant fluid - any contact with skin and eyes must be avoided. It is essential that safety glasses and rubber gloves always be worn during handling. The use of a protective cream e.g. Ketodex 1, is recommended. In case of



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contact with eyes or skin, flush immediately with plenty of water and seek medical advice.

Further details can be found in the Material Safety Data Sheet.

The information given here is true, represents our best knowledge and is based not only on laboratory work but also on field experience. However, because of numerous factors affecting results, we offer this information without guarantee and no patent liability is assumed. For additional information or questions, please contact your local representative.

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