

TECHNICAL DATASHEET

BETONMIX® SHOTCRETE 212 AL

About Product

BETONMIX® SHOTCRETE 212 AL is a liquid alkaline concrete additive accelerating setting, used in the production of shotcrete.

Product code: 207.90005

Application Areas

- In tunnels, bridges, subways, dams, and underground structures
- In places with curved, dome-shaped surfaces and arbitrary shapes
- In the repair and strengthening of buildings
- In the stabilization of slopes
- In the construction of swimming pools, water reservoirs

Advantages

- Reduces the risk of bouncing concrete
- Ensures the maximum concrete thickness in one pass
- Increases the early strength of concrete
- Facilitates overhead application due to increased adhesion of concrete
- Does not contain chlorine and therefore, does not pose damage to reinforcement steel

Technical Specifications

Composition of material	Special inorganic substances
Colour	Yellow or orange liquid
Density (pycnometer)	1.39-1.45 kg/L
pH	12,0-14,0

The above figures are valid for +20°C and relative humidity of 50%.

Application Guidelines

When used in a liquid system, mix into concrete using a dosing pump and a separate hose with a nozzle. When used in a dry system, mix with water before application and then feed using a dosing pump and a separate hose with a nozzle.

Content

BETONMIX® SHOTCRETE 212 AL can be used at a ratio of 4 to 8% of the binder (cement, micro-silica, fly ash, slag), depending on the desired concrete properties. The required amount

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may vary depending on the treated surface, the ambient temperature, and the spraying device power. It is recommended to use proportions predetermined by laboratory tests according to the grade and specifications of the concrete to be produced.

Compatibility with other additives

- It can be used with BETONMIX® HP and BETONMIX® SP additives.
- Avoid mixing with BETONMIX® SHOTCRETE 310 AF.
- It can be used in combination with steel and synthetic fibers used to control cracking caused by reduced plasticity.
- It can be used with mineral additives such as fly ash, micro-silica, and slag.
- Before use with other additives, perform compatibility tests.

Issues Requiring Attention

- Frequently monitor the changes in factors affecting the dosage.
- Before use, perform compatibility tests according to the concrete components and class.

Storage Conditions

Store at +5 - +35 °C in a frost- and sunproof place. If the product is frozen, unfreeze it and mix until homogeneous. Do not mix under pressure. Do not store in aluminum containers.

Shelf Life

Under proper storage conditions, 6 months from the date of manufacture. Use the additive as soon as possible after opening the package. In case of sedimentation, mix it before use.

Safety Measures

During the application, wear work clothes and use protective gloves, glasses, and a mask according to the working conditions and occupational safety requirements. Due to the irritant effect of the material, avoid contact with skin and eyes; in case of contact, immediately wash the contact area with plenty of water; in case of ingestion, seek medical advice immediately.

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Food products should not be allowed in the material application areas. Store out of reach of children. For more details, please see the Safety Datasheet.

Liability

Our company shall only be liable for the product quality. Our company shall not be liable for any use of the product in breach of written guidelines and/or improper use. For more details, please request a product manual or contact our company's responsible officials.



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