



**MYS-
QUICK200**

Alkali-free, Liquid High Performance set Accelerator for Sprayed Concrete

Product description

MYS Quick 200 is a high performance alkali-free set accelerator for sprayed concrete, whose dosage can be varied to the desired setting and hardening times.

Field of application

- Temporary and permanent ground support in tunneling and mining.
- Slope stabilization
- Also suitable for accelerator of cementitious grouts, such as for annulus grout in TBM tunnels, cemented ground injection and foam concrete.

Consumption

The consumption of Quick 200 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.

Features and benefits

MYS Quick 200 is ideally suited for wet mix sprayed concrete for ground support:

- The quick setting property allows rapid work progress and the ability to construct thick sprayed concrete linings via layered application during one construction sequence.
- The unique product formulation provides fast setting, continuous early-age strength development high durability and good long term strength.
- Very low dust generation during application and therefore a good working environment.
- Possibility of low rebound applications when using the correct nozzle angle and distance.
- Non-aggressive properties provide improved working safety, reduced environmental impact and lower handling costs.

Packaging

MYS Quick 200 is available in standard 1000 liter IBC.

Or as filling to tank

Storage

- Must be stored at minimum +5 °C and maximum +35 °C (optimum temperature for storage and performance +20°C).
- Has to be kept in closed containers made of plastic, glass fiber or stainless steel.
- Must not be stored in normal steel containers.
- Storage in bulk tanks requires the use of agitation and / or circulation systems.
- After prolonged storage or transport we recommend to fully agitate it prior to use by mechanical stirring or re-circulation pumping.
- If stored in tightly closed original containers under the above conditions, it has a shelf life of 6 months. Periodical remixing can extend the shelf life further.
- Please contact your local MYS representative prior to the use of any product that has been frozen.
- After prolonged storage, performance testing should always be carried out before use.

Safety precautions

The same precautions as with handling and use of cementitious products should be observed.

Avoid eye and skin contact and wear rubber gloves and safety glasses. If contact occurs, rinse with plenty of water. In case of eye contact seek medical advice. For further information, refer to the Material Safety Data Sheet or contact your local MYS representative.

Dosing system

MYS Quick 200 is added at the nozzle. It is essential to have a constant and accurate dosage of accelerator into the concrete stream. To ensure quality sprayed concrete, follow the pump selection guidelines given below:

Works very well with:

- Mono pumps (stator & rotor pumps)
- Peristaltic pumps (Bredel)

Should not to be used with:

- Piston pumps
- All pumps with ball and seat valves
- Pressure tanks
- Gear pumps

Do not use a filter on the suction hose as this causes obstructions. Preferably draw the material off the bottom of the drum/container.

Initial Set	Final Set	24 h Strength	Rating
2 Min.	6-8 Min.	18-20 MPa	Good
5 Min.	8-12 Min.	12-15 MPa	Ok
>10 Min.	>15 Min.	<10 MPa	Poor

Concrete mix

When MYS Quick 200 is used for wet mix spraying, the w/c+b ratio should be below 0.5 and preferably <0.45. When targeting extremely high early strength, 0.40 or lower. The lower w/c+b ratios provide faster setting, higher early strength, better durability, lower accelerator dosage and thicker layers can be applied overhead.

Cleaning of dosing pump

After the use of MYS Quick 200, the dosing pump and other parts of the system must be thoroughly cleaned with plenty of water. Failure to do so provokes blockages in the dosing system when next used. Make sure that all operators involved in testing and application are fully informed.

Application procedure

The substrate should be clean and free from loose particles and preferably damp. It is recommended to use only fresh cement as the age of the cement can have a negative influence on the setting characteristics of the mix.

MYS Quick 200 can be sensitive to the type of cement. With some cements the setting characteristics can be too slow. We recommend the use of Portland cements (PC/HPC), which normally give faster setting than blended or sulphate resistant cement types. However, MYS Quick 110 also works well with composite cements types (blended cements, fly-ash/slag). In all cases, it is strongly recommended to carry out preliminary tests to check setting and the 24 h strength of the cements planned for use in a project.

Evaluation of setting and 24 h strength should be carried out on a test mortar in accordance with EFNARC European Specification for Sprayed Concrete (1996), Appendix 1, Clause 6.3.

The following results should be taken as a performance guide only:

Typical values	
Form	Suspension
Color	Beige
Solubility in water	Total
Density@25°C	1.41 ± 0.03 [g/ml]
Ph	2.5 ± 0.5
Viscosity	>400 mPa.s
Thermal Stability	+5°C to +35°C