Roka Shot Crete

Powder Shotcrete Accelerator Admixture

Roka Shot Crete is an accelerator designed to reduce the set time in dry shotcrete mixes in applications that are subject to freeze/thaw cycles. Roka Shot Crete is an economical accelerator suitable for warmer and many underground applications.

Uses & Advantages:

- Allows thicker build per pass.
- Accelerates strength development.
- Allows rapid sealing of humidity and water inflow from concrete.
- Does not accelerate corrosion of reinforcing steel.

Fields of Application:

Roka Shot Crete is suitable for use in:

- Water Treatment Plants.
- Reservoirs.
- Retaining Walls.
- Mines.
- Tunnels.

Technical Data:

The following test results were achieved from samples in a laboratory environment under controlled conditions.

Composition of Shotcrete:

Type 1 Cement	424 kg/m^3
Silica Fume	42 kg/m^3
Aggregate 1.0 – 2.5mm	1770
Water	187

Results on Shotcrete	**Without Roka Shot Crete**	**With Roka Shot Crete**
Initial Set	72 minutes	5 minutes
Max Build Thickness	4.5 mm	> 10 mm
Compressive Strength		1 Day: 2900 PSI 7 Days: 4525 PSI 28 Days: 6115 PSI

Dosage:

The recommended dosage for Roka Shot Crete is between 2 to 10% by weight of cementitious material. It is recommended to run trial runs to ensure desired results.

Direction for Use:

Roka Shot Crete can be mixed with other dry components of the shotcrete mix before introduction to the shotcrete gun. For other than dry shotcrete applications, consult Roka Chem Solutions representative.

Health and Safety:

Use of suitable protective clothing and safety goggles, gloves etc. is recommended while handling Roka Shot Crete. Ensure that the area is well ventilated during the application. If any material comes in contact with the skin, immediately wash with clean water. Any splashes into eyes should be treated with plenty of clean water and medical assistance sought.

Important Note:

The information provided in this data sheet is based on ongoing development efforts and extensive field experience. While we strive to ensure the accuracy and reliability of the information, we cannot assume responsibility for any work performed using our materials, as we have no control over application methods, site conditions, and other factors. Due to ongoing research and

development in our laboratories, we recommend that customers verify that this data sheet has not been replaced by a more recent publication.

All products are sold under our standard conditions of sale, which are available upon request. Any field services offered do not imply supervisory responsibility. For further information, please contact your local representative of Roka Chem Solutions.