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FAST CRETE 105-P

Powder Shotcrete Accelerator Admixture

PRODUCT DESCRIPTION

FAST CRETE 105-P is a fast accelerator that reduces the set time of shotcrete. Designed for use in dry shotcrete mixes in applications that are subject to freeze/thaw cycles, making it an economical accelerator for warmer climates and also for many underground applications.

FIELDS OF APPLICATION

It is useful for the concrete of:

- Tunnels
- Mines
- Retaining walls
- Reservoirs
- Water treatment plants

BENEFITS

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

SPECIFICATION

Performance Data:

The following test results were achieved from samples that were sprayed using industry standard equipment in a laboratory environment under controlled conditions. The water addition was set

to obtain the consistency normally used in typical shotcrete applications.

COMPOSITION OF SHOTCRETE

Mix	Lbs/yd ³	Kg/m ³
Type 1 (10) Cement	700	424
Silica Fume	70	42
Fast Crete 105-P 6		3.6
Agg 1.0-2.5mm	2920	1770
Water	308	187
Results on fresh Shotcrete	Without Admix	With Admix
Initial set (Minutes)	72	5
Max build thickness in mm	4.5(115)	>10(250)

Typical results on hardened shotcrete	PSI	MPA
Compressive Strength		
1 Day	2900	20.0
7 Days	4525	31.2
28 Days	6115	42.5

Entrained/Entrapped air (%) 2.1

PACKAGING

FAST CRETE 105-P is packaged in (20 kg) bags.



SHELF LIFE

1 year in original, unopened container.

DOSAGE

FAST CRETE 105-P is normally dosed at a rate of 2% to 10% by weight of cementitious material. For dosages other than specified, trials are necessary.

DIRECTION OF USE

Mix FAST CRETE 105-P with other dry components of the shotcrete mix before introduction to the shotcrete gun. For other than dry shotcrete applications as herein stated, contact your Fast representative.

TECHNICAL SUPPORT

FastChem offers a comprehensive range of high performance, high quality repair, maintenance and construction products. In addition, FastChem offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the world.

PRECAUTIONS

HEALTH AND SAFETY

FAST CRETE 105-P should not come in contact with skin and eyes or be swallowed. Avoid inhalation of vapours and ensure adequate ventilation.

Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye/face protection. Barrier creams such as Kerodex Antisolvent or Rozalex Antipaint provide additional skin protection.

Should accidental skin contact occur, remove immediately with a resin removing cream such as Kerocleanse Standard Grade Skin Cleanser or Rozaklens Industrial Skin Cleanser, followed by washing with soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. For further information, refer to the Product Material.

WARRANTY

This product is warranted to be free of defects in material and workmanship, and conform to FAST Construction Chemicals ("FAST") quality control standards. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose.

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