

ROCKSET C-303P

Accelerating Shotcrete Admixture Powder

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Formerly Pagel Pakistan Pvt. Ltd.

Description

RockSet C-303P is a high performance, readily soluble powder, designed to be used as an Alkali-free set accelerator for shotcreting concrete. The required hardening time can be achieved by adjusting the dosage.

- Development of high early strength as well as long term strength.
- Extremely fast setting allows for rapid work progress.
- Low rebound properties, which lead to minimal waste and faster progress.
- Alkali free material – safe to use with easy handling and low environmental effects.
- Compatible with all type of cement but works best with Ordinary Portland or High-performance cements.
- Good reduction of dust.

Recommended Uses

RockSet C-303P is recommended for use in shotcreting applications where fast setting time and high early strength are required:

- Tunnels, caverns and mines.
- Rock and slope stabilization.
- Shotcrete for lining.

ADMIXTURES

SPECIAL ADMIXTURES

SURFACE IMPROVEMENT

GROUTS

WATER PROOFING

FLOORING

INDUSTRIAL COATINGS

JOINT SEALANTS

REPAIR / CRACK INJECTION

TILING SYSTEMS

Technical Data

Form	Powder
Color	White
Bulk density	750 - 1000 kg/m ³
PH in water dispersion	7 ± 0.5
Chloride contents	< 0.1%

Important Information:

Supplied in: 25 Kg Bags.

Storage: Dry, Frost free area, Out of direct sunlight. unopened containers.

Shelf life: 12 months, when stored as above.

Consumption:

The dosage of RockSet C-303P depends on the temperature conditions, reactivity of cement, required thickness of layers, setting time and the degree of early strength development. The correct dosage must be determined by preliminary testing. For layer thickness of up to 15 cm in one pass, dosage is between 3% and 6% of the weight of the binder. Overdosing, in excess of 10%, may lead to lower final strengths .

Application Guidelines

Substrate Preparation:

The substrate must be clean and free from all loose particles and preferably damp. It is recommended to use fresh cement to avoid any negative influence on the setting characteristics of the mix. RockSet C-303P can be sensitive to the type of cement. With some cements the setting characteristics can be too slow. It is recommended to use Portland cements (PC / HPC), which normally give faster setting than blended or sulphate resistant cement types. RockSet C-303P also works well with composite cement types (blended cements, fly-ash / slag). In all cases, it is strongly recommended to do preliminary tests to check the setting time and the 24 hours strength.

The evaluation of the setting time and 24 hour strength (without addition of slump killing system), should be carried out on a test mortar in accordance with EFNARC European Specification for Sprayed Concrete, Appendix 1, Clause 6.3. The following results should be taken as a performance guide only:

Initial Set	Final Set	24 hour 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

Mixing:

When RockSet C-303P is used for wet mix spraying, the w/c ratio should be below 0.5 and preferably less than 0.45. When targeting extremely high early strength, it should be 0.40 or lower. The lower w/c+b ratios provides faster setting, higher early strength, better durability, lower accelerator dosage, while allowing for thicker layers to be applied overhead.

Works Well With:

- Mono pumps (screw pumps).
- Squeeze pumps.

Should not 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 the material should be drawn off the bottom of the drum/container.

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