

ADMIX AC470

Set Accelerating Admixture for Concrete and Mortar

ADMIX AC470 is a cement set accelerator which is supplied in dense liquid form. This product is used where high early strength or quick setting time is required in concrete or cement slurry. Adding time is at the last stage of slurry injection or at the nozzle while spraying concrete.

Applications

ADMIX AC470 can be used where high early strength or thicker layers of sprayed concrete is the aim:

- Temporary or permanent supports in tunneling or underground constructions.
- Rock stabilization in road working and mines.
- Slurry injection in soft grounds.
- Slope stabilization.
- Injection of normal and foamed slurry as back filling in TBM excavation.

Properties

Appearance	Viscous liquid
Color	Marbleized to light gray
Density	1.4 g/cm ³ at 25°C
pH	12.5 – 13.5
Chloride content	<0.1%

Applications notes

It is always recommended to use fresh cement; old cements may affect setting properties of concrete. The product is sensitive to cement, setting time will extend with some types of cement. Use of Portland cement type 1 or 2 is recommended as they have faster setting time comparing to others such as sulfate resistance or pozzolanic cements. **ADMIX AC470** has good reaction with mixed cements containing fly ash and slags, but trial is advised before batching for determining setting time and 24 hours compressive strength.

Mix design



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In wet shotcrete mix design containing **ADMIX AC470** as accelerator, water cement (total cementitious materials) ratio should be less than 50% or even less than 45%. When high early strength is the aim, water cement ratio of 40% or less should be considered. Lower water cement ratio causes faster setting time, less accelerator consumption and thicker layer applications.

Dosages

Proper dosage can be determined by trials for each project and can't be generalized to other projects. Tested dosage is between 2 to 7 percent of cementitious materials depending on expected setting time, type of cement and water cement ratio.

Packaging

ADMIX AC470 is supplied in 30 kg containers and 250 kg drums. Bulk delivery is possible based on request.

Storage

This product must be stored in original containers between 5 to 30°C under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage condition contact **White Damavand** Technical Services Department.

Safety awareness

ADMIX AC470 contains alkali materials. Use personal safety devices while using this material. For more information about safety, please read product material safety data sheet.

Quality approval

All materials produced in **White Damavand** are under strict control of QC department and meet the requirements of international standards.

Supplementary data

For additional information, please contact company's specialists.



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