

ABAQUICK-AFP **POWDER ACCELERATING ADMIXTURE / QUICK-SETTING FOR SHOTCRETE**

ABAQUICK-AFP is a non-alkaline accelerator of water-cement reaction. It can be used for dry mix shotcrete.

It is controlled based on:
ASTM C1141, ASTM C1398
EN 934-5
ISIRI 2930-5, ISIRI 12601

APPLICATION

- Shotcrete
- Shotcrete for structural tunnel
- Particularly suitable for use of tunnel and channel lining
- Ground and rock slope sections stabilization
- Concreting in slope surfaces
- Underground structures lining
- Repairs Concrete Structures

ADVANTAGES

- Accelerates the hydration reaction
- Achieve to early compressive strength of concrete
- Increased adhesion
- Dry mix shotcrete for any thickness
- Reduction in the risks of rebound and dust
- Shotcrete at one layer up to 35 centimeters thickness
- High adhesion to concrete and stone sections
- Easy shotcrete applications
- No negative effects on reinforcement of concrete structures
- Cold weather concreting
- Prevents freezing of concrete and mortar

TECHNICAL NOTE

The following parameters effect on properties of ABAQUICK-AFP:

- 1- Cement content
- 2- Water-cement ratio
- 3- Ambient temperature
- 4- Temperature of ABAQUICK-AFP
- 5- Temperature of water and aggregate
- 6- thickness of shotcrete
- 7- Equipments and shotcrete method



DOSAGE

Depending on speed of concreting, the time required for shotcrete and Compressive strength, a dosage of between 2.0 and 7.0 percent by weight of cement is recommended. The optimum dosage of ABAQUICK-AFP can be determined by trials in the site.

Note: For use with other range of dosage, contact ABADGARAN Technical Services Department. Please contact our engineering office in case of simultaneously use of more than one admixture.

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DIRECTION OF USE

ABAQUICK-AFP should be used based on requirement of project.

The following parameters effect on directions of use:

- 1- Mixing time and mixing method of ABAQUICK-AFP with concrete mixture
- 2- Type of equipments
- 3- Nozzle of Shotcrete Machine

PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Powder

Color: White

Specific gravity: 1.35+ 0.05 g/cm³

Chloride ion: Nil to EN 934

STORAGE

Shelf life: 1 year in the original package

Storage condition: should be protected from direct sunlight and moisture. Keep bag in the temperature range between +10°C and +30°C.

Packing: 20 kg bag

ABAQUICK-AFP should be kept in the original package because it is reactive especially with moisture and dust. Recommended to be used immediately opened the bag.

HEALTH AND SAFETY

This product does not contain any substances hazardous to human health and the environment. However, it should not be swallowed and contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water. ABAQUICK-AFP is not flammable. For further information refer to the material safety data sheet. MSDS is available at ABADGARAN website.

TECHNICAL SERVICE

The ABADGARAN INTERNATIONAL GROUP Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

