

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

ABAQUICK-P is a low rate powder alkaline accelerator of water-cement reaction developed for shotcrete with a very rapid setting time. It is formulated to be used both in wet-mix Shotcrete as well as dry-mix shotcrete spray systems. Because of its composition and accelerating action, ABAQUICK-P is suitable for preparing high quality shotcrete with high mechanical strength. It complies with the requirements of following standard:
ASTM C1141

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-P:

- 1- Cement content
- 2- Water-cement ratio
- 3- Ambient temperature
- 4- Temperature of ABAQUICK-P
- 5- Temperature of water and aggregate
- 6- Thickness of shotcrete
- 7- Type of Equipments
- 8- 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-P 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.

DIRECTION OF USE

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

The following parameters effect on directions of use:

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

PHYSICAL AND CHEMICAL PROPRIETIES

Physical state: Powder

Color: Light yellow

Specific gravity: $0.97 \pm 0.02 \text{ g/cm}^3$

Chloride ion: nil to EN 934

Alkaline metal content: ≤ 0.7

pH (10% solution): 3.0 ± 0.5

STORAGE

Shelf life: 1 year in the original package

Storage condition: should be protected from direct sunlight and frost. Keep container in the temperature range between $+10^\circ\text{C}$ and $+30^\circ\text{C}$

Packing: 20 kg Bags.

ABAQUICK-P should be kept in the original package. Recommended to be used immediately opened the container.

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-P 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.

