

# ABAQUICK-AFL

## LIQUID ACCELERATING ADMIXTURE / QUICK-SETTING FOR SHOTCRETE

### DESCRIPTION

ABAQUICK-AFL is a non-alkaline accelerator of water-cement reaction. It can be used for wet mix shotcrete. It meets the requirements of the following:  
ASTM C1141, ASTM C1398

### FIELD OF 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
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### 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-AFL:

1. Cement content
2. Water-cement ratio
3. Ambient temperature
4. Temperature of ABAQUICK-AFL
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-AFL can be determined by trials in the site

### DIRECTION OF USE

ABAQUICK-AFL should be used based on requirement of project

The following parameters effect on directions of use

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

### TECHNICAL PROPERTIES

Physical state: Liquid

Color: Transparent

Specific gravity:  $1.33 \pm 0.05 \text{ g/cm}^3$

Chloride content: Nil

Alkali content:  $\leq 0.2\%$

### PACKAGING

24 kg container.

### STORAGE & SHELF LIFE

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  $+30^\circ\text{C}$ .

ABAQUICK-AFL 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-AFL is . not flammable

