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

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

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

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

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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.
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-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

PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Specific gravity: 1.33 ± 0.05 g/cm³
Chloride content: Nil to EN 934

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°C and +30°C.
ABAQUICK-AFL should be kept in the original package. Recommended to be used immediately opened the container.
Packing: 24 kg container

HEALTH AND SAFETY

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

All data presented in this technical datasheet are based on our last researches in ABADGARAN CONSTRUCTION CHEMICALS laboratories and are just as a guide for choosing appropriate material. Therefore users should conduct a sufficient investigation to establish the suitability and conformity of any product for intended uses.