

## BUILDSHOT – AFL

### Alkali free accelerator for sprayed cementitious mixes

**DESCRIPTION :** **BUILDSHOT – AFL** is available in liquid form. It is used as an accelerating admixture for sprayed cementitious mixes when desired setting and hardening times at an enhanced rate are required.

**BUILDSHOT – AFL** is free from Sodium & Potassium salts (caustic alkali free)

**USES :** **BUILDSHOT – AFL** is suitable for application as an alkali free accelerator for wet process of spraying of plain and reinforced concrete when quick build-up of layers with high early as well as good final strength are required. The main application of **BUILDSHOT – AFL** lies in the following areas :

- ❖ Rock and slope safety
- ❖ Temporary and permanent rock support in tunnels
- ❖ In poor ground conditions
- ❖ High volume sprayed concrete at the time of construction

#### FEATURES

- ❖ **BUILDSHOT – AFL** is alkali free
- ❖ Quick build-up of layers through fast setting and strength development
- ❖ Early age strength development with superb long term strength and durability
- ❖ Easy to handle
- ❖ Reduces dust and rebound considerably with good working environment
- ❖ Increases adhesion on rock and concrete
- ❖ Free from chloride – does not affect steel re-bar.

**APPLICATION :** The substrate on which spraying of concrete is to be carried out, should be clean and free from loose particles. The cement should not be old with air-set lumps. In fact cement should be fresh with free flowing condition. It is very important to choose pumps like mono-pump (screw pump) or squeeze pump for accurate dosage. The material should be stirred thoroughly before use.

**DOSAGE :** The normal dosage varies from 4% to 6% by weight of cement. In fact the dosage of **BUILDSHOT – AFL** depends on the temperature of the substrates, reactivity of cement, thickness of layers, setting time and early strength development. **BUILDSHOT – AFL** is very sensitive towards use of cement. With old cement, setting time gets delayed. It is strongly advisable to carry out preliminary trials to check the setting and strength of the cement along with **BUILDSHOT – AFL**. Use of any other admixture in conjunction with **BUILDSHOT – AFL** is not recommended. **BUILDPLAST SUPER** is compatible with this accelerator.

#### TECHNICAL DATA

Form	: Liquid – colourless to light brown
pH	: Less than 3
Specific gravity at 30°C	: 1.35 ± 0.03
Packing	: 250 kg. drums
Storage	: It should be stored above 5°C but less than 40°C
Shelf life	: Three months in original containers.
Health & safety	: Material is non-hazardous and non-flammable.