



Specially designed Alkali Free Liquid Shotcrete Accelerator to Enhance Hydration and Reduce Rebound

General

SS - QuickSet AF is an Alkali Free, Multipurpose, Guniting and Shotcrete Accelerator. It is available in liquid form making it suitable for shotcreting both in dry and wet systems. **SS - QuickSet AF** makes spraying possible in slight moist or wet surfaces which has minor water infiltrations. The bonding with wet areas is enhanced with usage of this product. The use of **SS - QuickSet AF** is compatible with all standard mixes used in guniting / shotcreting containing all types of cements, fibres and supplementary cementitious materials and other admixtures. It reduces rebound and enables overhead spraying in higher thicknesses in a single pass.

SS - QuickSet AF reacts with the mix instantly and hastens setting time leading to quick hardening. The strength development aids in strengthening the base and providing support. It reduces the rebound contributing to economy of the project. Preliminary trials are required to be conducted as per prevailing codes to determine the optimum dosage required under individual conditions. **SS - QuickSet AF Liquid** should be added at the nozzle. The placing should be designed to consider the acceleration of hardening induced by using **SS - QuickSet AF** to determine the optimum dosage a preliminary trial can be conducted by using 5% by weight of binder and adjustments can be made for a early or delayed setting.

Product Features

- Reduces Rebound
- Enables Higher Thickness in Single Pass
- Alkali Free
- Suitable for Moist / Wet Substrates
- Universally Compatible
- Quick Development of Strength
- Reduced Permeability
- Designed for Overhead Operations
- Enhanced Bonding
- Speeds up the Operation
- Little reduction in Final Strength
- Creates Reliable Support to Substrates



**Concrete &
Mortar Additives**



Areas of Application

- Tunneling, Shafts, Galeries etc.
- Stopping Minor Water Infiltrations
- Hill, Rock and Slope Stabilisation
- Swimming Pools, Water Parks etc.
- Temporary Stabilisations during Construction
- In Excavations and Embankments
- Stabilisation in Mining Operations
- Concrete Repair Strengthening Works
- For Shell / Thin Constructions
- Thick Overhead Guniting
- Creating Impermeable Layers



Areas of Application

Specification Keywords	Shotcrete and Guniting Accelerator, Alkali Free Admixture, Early Setting, OPC, Microsilica, Blended Cements, Fibres, Tunnels and Underground Structures
Delivered As	Liquid
Storage Instructions	Store in a cool and dry area away from sunlight, in original packaging
Shelf Life	12 Months
Post Use	Empty packaging completely. Dispose as per local regulations.
Packing Size	20 kg, 200 kg

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Hazards and Safety



Technical Data

Form	Liquid
Sp. Gravity (Liquid)	≈ 1.30 +/- 0.10
Dosage	3.0 to 7.0% by weight of binder
pH	≈ 2.50 +/- 0.20
Chloride Content	< 0.1%

Instructions for Use

The gunite / shotcrete dry mix to be sprayed is fed into the hopper of the guniting / shotcreting machine. **SS - QuickSet AF** Liquid is to be added at the nozzle to the well designed dry gunite / shotcrete mix. The concrete / mortar to be produced should be mixed in a standard guniting / shotcreting machine. The setting time of mix will vary depending upon ambient temperatures and therefore the dosages should be properly determined taking into consideration the setting and hardening times at different temperatures. Maximum Dosages should be as per relevant International Standards.

In-case the admixture needs to be dosed on-site please follow corresponding engineering and safety rules. As with all chemical products, take care during use and storage to avoid contact with eyes, mouth, skin or food. In case of contact, rinse eyes and skin immediately with plenty of water. If ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers tightly after use. Do not reuse containers for storing water or other consumable foods. Use Complete Packs.

Safety and Precautions

- To determine individual technical suitability, test the admixture under application conditions. Please allow us to assist you for your concrete technology testing/needs.
- Follow relevant standards for production, placing and curing of concrete. As with any concrete, efficient curing is essential to develop final properties mechanical and durability properties.
- Since material shows tendency to separate / gel, it should be well stirred suitably before use. The material should not be stored in metal / steel containers. Dosing device should be cleaned thoroughly before and after use. Should not be stored in sunlight to avoid film formation.
- Depending upon the concrete mix severe over dosage of the admixture may result in apparent incompatibility such as bleeding/segregation of concrete, quick setting, excessive air entrainment, etc. Slight overdosing would not severely affect the ultimate strength of concrete provided the concrete is properly mixed, handled and placed and adequately compacted and cured.