

Ekan® SHOT P10 AF

Alkali-free powder additive for sprayed concrete
(shotcrete)



Ready-Mix Concrete Admixtures
Sprayed concrete admixtures



CHARACTERISTICS

EKAN® SHOT P10 AF is a set-accelerating additive based on aluminum sulfate used for shotcrete.

EKAN® SHOT P10 AF is a ready-to-use, non-corrosive powder used in sprayed concrete to consolidate rock surfaces in tunnels, galleries, retaining walls, and concrete linings applied by wet-mix shotcreting.

EKAN® SHOT P10 AF:

- Regulates concrete cohesion, reducing the risk of rebound.
- Distributes homogeneously in the concrete.
- Does not negatively affect durability.
- Eliminates the risk of alkali-silica reaction (ASR).
- Is compatible with concrete pumping equipment

INSTRUCTIONS FOR USE

Areas of use

- Tunnels, bridges, subways, dams, and underground works
- Areas where curved, domed, or overhead forms are desired
- Sprayed concrete applications with high setting speeds
- Slope stabilization
- Underground concrete surfaces

Application

Dosage: The product must be dosed in a range between 3% and 10% of the binder content in 1 m³ of concrete. EKAN® SHOT P10 AF is completely soluble in water. For best performance, add the product to the second half of the mixing water or pre-dilute it with water before application. The use of Portland cement as a binder is recommended. Use aggregates with a moisture content of 4–8% to reduce rebound (ref. ACI 506-66). The optimal dosage must be defined after local tests on the desired mechanical properties and workability of the mix. For further details, contact EKAN's technical sales personnel.

TECHNICAL DATA

Appearance: Powder
Color: White
Density: 1.10 ± 0.05 kg/l
pH: 2.00 – 3.50 (20°C)

CERTIFICATIONS



PRECAUTIONS

The shelf life of EKAN® SHOT P10 AF is 12 months when stored in its original packaging in a dry environment and protected from direct sunlight.

After a long period of inactivity, shake or mix the product or use a circulation pump to homogenize it before use.

After a freeze/thaw cycle, mix the product before use.

Avoid contact with eyes and skin.

Detailed health and safety information is available in the Material Safety Data Sheet (MSDS).