



BISEAL[®]

AF



ANTI-FREEZE ADMIXTURE FOR CONCRETE AND MORTARS

DESCRIPTION

BISEAL[®] AF is an anti-freeze admixture for concrete and mortars, with no chlorides or fluorides.

APPLICATION FIELDS

Preparation of concrete and mortars that are going to be exposed to temperatures as low as $-8\text{ }^{\circ}\text{C}$, a couple of hours after its placing.

ADVANTAGES

- It provides setting and hardening capability to mortars and concrete when exposed to low temperatures.
- It accelerates the setting time of the concrete and mortar prepared.

APPLICATION INSTRUCTIONS

Mixing

BISEAL[®] AF is prepared to be added directly to the mixing water. Do not mix with dry cement or aggregate.

Consumption

Dosage varies between 1% to 3% of cement weight.

Trial mixes should be carried out to fix the optimum dosage and effect on desired properties of concrete and mortar, and according to the existing temperature.

IMPORTANT INDICATIONS

- Minimum cement content of concrete should be at least of 300 kg/m^3 .
- Cement, water and aggregates shall be protected from temperatures below $0\text{ }^{\circ}\text{C}$.

- When mixing, the temperature of concrete shall be above $+5\text{ }^{\circ}\text{C}$, and reinforcements and forms shall be above $0\text{ }^{\circ}\text{C}$, without any ice or snow on them.
- The mixing shall be done with the minimum amount of water.
- Concrete shall be covered to prevent loss of heat and humidity after placing.
- Form removal delays shall be increased the same number of days that the element has been exposed to temperatures below $0\text{ }^{\circ}\text{C}$, after its placement.

PACKAGING

BISEAL[®] AF is supplied in 20 kg jerrycans, 220 kg drums and 1000 kg containers.

STORAGE

Twelve months in its original unopened container, in a dry and covered place protected from frost, with temperatures above $-5\text{ }^{\circ}\text{C}$. If frozen, thaw and agitate thoroughly to return to its normal state before use.

SAFETY AND HEALTH

BISEAL[®] AF is not a toxic product but avoid contact with the eyes and skin. Use safety goggles and rubber gloves. In case of skin contact, wash with luke-warm water and soap. In case of eye contact, rinse thoroughly with water seek medical assistance. It is a non-flammable.

Safety Data Sheet for **BISEAL[®] AF** is available by request.

Disposal of the product and its empty packaging must be done by the final user and according to official regulations.

TECHNICAL DATA

Description	Accelerating admixture. EN 934-2 T7
Density (g/cm ³)	1,25 ± 0,02
pH	13 ± 1
Appearance	Colourless
Solubility in water	Complete
BISEAL[®] FS meets specifications for CE marking of accelerating admixture for concrete according to EN 934-2.	

GUARANTEE

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ISO 9001
ISO 14001

BUREAU VERITAS
Certification

n° 6003176 / 6003176-MA

