



BISEAL[®]

FUME

SILICA FUME ADMIXTURE FOR CONCRETE AND MORTAR

DESCRIPTION

BISEAL[®] FUME is a powder admixture, based on densified silica fume, which is added in order to provide cohesion and reduce bleeding of fresh concrete and mortar mixes, and to increase highly its mechanical strength once hardened.

APPLICATION FIELDS

- Obtaining very high quality concrete and mortars.
- High early and ultimate strength concrete and mortars.
- Concrete and mortars with greatly improved chemical resistance and long-term durability.
- Shotcrete using both wet and dry processes.
- Offshore and marine structures.

ADVANTAGES

- Increases flexural and compressive strength.
- Reduces segregation of fresh concrete.
- Improves workability and rheology of fresh concrete.
- Reduces permeability and porosity of hardened concrete.
- Increases chemical attack resistance against aggressive conditions.
- Reduces rebound in shotcrete works.

APPLICATION INSTRUCTIONS

Mixing of the product

It is supplied ready to use, to mix with the cement and aggregates before water is poured. Due to the extreme fineness of **BISEAL[®] FUME** and in order to avoid an increase in water demand, the use of a high-

range water-reducing admixture such as **BISEAL[®] SPF** (Technical Bulletin n°.: 98) added with mixing water is recommended, which also will help to pump the concrete. Also, a replacement of fine aggregates can be done to reduce water demand. Trial mixes should be carried out to fix optimum dosage and effect.

Curing

Proper curing procedures must be followed to protect against plastic shrinkage cracking. Curing agents such as **MAXCURE[®]** (Technical Bulletin n°.: 49) should be applied immediately after finishing is completed. Also wet curing with wet burlap or plastic sheet from five to seven days is highly recommended.

CONSUMPTION

- High strength concrete and long-term durability: 10% aprox. by mass of cement.
- General construction purposes: 5 – 10 % aprox. by mass of cement.
- Shotcrete: 5 % aprox. by mass of cement.

PACKAGING

BISEAL[®] FUME is supplied in 20 kg sack.

STORAGE

Twelve months in its unopened original packaging, in a dry and covered place, with temperatures above 5 °C.

SAFETY AND HEALTH

BISEAL[®] FUME is non-toxic and non-flammable. Avoid contact with eyes and skin. Use safety goggles, mask and gloves. In

case of skin or eye contact, wash with warm water.

TECHNICAL DATA

APPEARANCE	Dark grey/black powder
RELATIVE DENSITY (g/cc)	0,66
FINENESS	90% < 1 μ m
SPECIFIC SURFACE AREA (m ² /gr)	> 24
SiO ₂ CONTENT (%)	> 90
CI CONTENT (%)	< 1
POZZOLANIC ACTIVITY INDEX (28 days)	> 100

GUARANTEE

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Certification



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