



BISEAL[®]

SPF



SUPERPLASTICISER – HIGH RANGE WATER REDUCING ADMIXTURE

DESCRIPTION

BISEAL[®] SPF is a liquid admixture, which once added to the mixing water of concrete and mortar, and depending on the dosage, acts as a superplasticiser or high range reducer of mixing water, providing high fluidity and improved mechanical resistance of concrete and mortars.

APPLICATIONS FIELDS

- Fluid concrete and mortars.
- High quality mortars and concrete for civil works in any type of application.
- Mortars and concrete that require a minimum water/cement ratio.
- Prefabricated and prestressed reinforced concrete elements.
- Concrete placing in hot weather conditions.
- High mechanical strength mortar or concrete.

ADVANTAGES

- Free from chlorides and other corroding compounds.
- Minimum water/cement ratio allowing to decrease the risk of drying shrinkage and creep.
- Highly improves initial and ultimate mechanical strength of concrete and mortars.
- Improves the placing, aiding in pumping and vibration process, increasing labour productivity.
- Provides cohesion to the mass, preventing segregation of components.
- Allows reduction of water/cement ratio improving impermeability, freeze-thaw

resistance and durability of concrete and mortars.

- It reduces entrapped air, porosity and improves surface finishes and aesthetic appearance.

APPLICATION INSTRUCTIONS

It is supplied ready to use, being added to the mixing water in a 1% to 3% proportion by weight of cement, depending on the results desired, whether to obtain a superplasticising effect or maximum mixing water reduction.

Do not add directly on dry compounds. If concrete has to be transported a great distance, **BISEAL[®] SPF** can be added on site, directly to the mixer, preventing any loss of slump of the concrete.

The cleaning of tools should be done with plenty of clean water.

CONSUMPTION

Estimated consumption for concrete and mortars is from 1 to 3 % by weight of cement. Trial mixes should be carried out to fix optimum dosage and properties desired.

IMPORTANT INDICATIONS

For other uses not specified in this Technical Bulletin, consult our Technical Department.

PACKAGING

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

STORAGE

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

If frozen, thaw and agitate thoroughly to return to its normal state before use.

SAFETY AND HEALTH

BISEAL® SPF is not a toxic product, but avoid contact with eyes and skin. Use safety

goggles and gloves. In case of skin contact, wash with warm water and soap. In case of eye contact, rinse abundantly with water and seek medical help. It is not classified as dangerous material for transportation and non-flammable product.

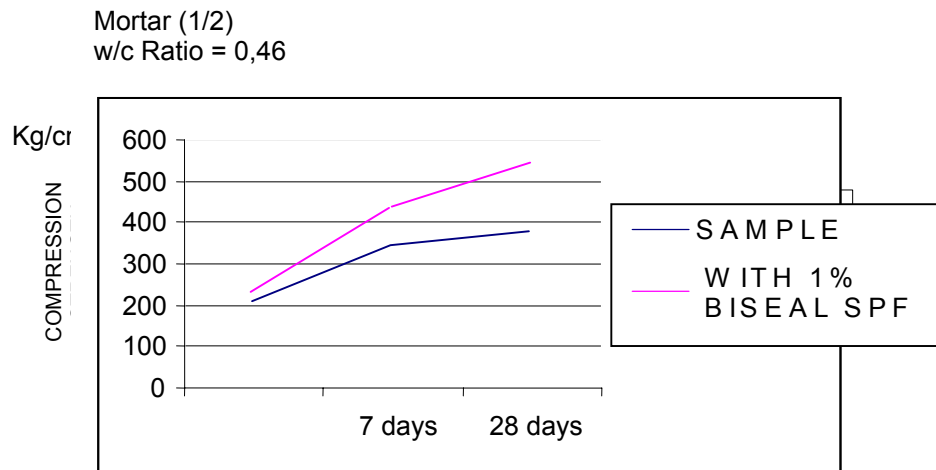
For further information, Safety Data Sheet of **BISEAL® SPF** is available by request.

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

TECHNICAL DATA

Description	High range water reducer admixture/ superplasticiser. EN 934-2 T3.1/3.2
Density (g/cm ³)	1,07 ± 0,02
pH	9 ± 1
Base	Sulfonated melamine condensate
Appearance	Transparent / light yellowish liquid
Solubility in water	Complete
BISEAL[®] SPF meets specifications for CE marking of superplasticiser admixtures for concrete according to EN 934-2.	

COMPRESSIVE STRENGTH TEST



GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. **DRIZORO[®], S.A.** reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product. The data shown on consumptions, measurement and yields are for guidance only and based on our experience. These data are subject to variation due to the specific atmospheric and jobsite conditions so reasonable variations from the data may be experienced. In order to know the real data, a test on the jobsite must be done, and it will be carried out under the client responsibility. We shall not accept responsibility exceeding the value of the purchased product. For any other doubt, consult our Technical Department. This version of bulletin replaces the previous one.



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ISO 9001
ISO 14001

BUREAU VERITAS
Certification

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