



BISEAL[®] FIBER

POLYPROPYLENE FIBERS FOR REINFORCEMENT OF CONCRETE AND MORTAR

DESCRIPTION

BISEAL[®] FIBER are 100% virgin-polypropylene fibers without reprocessed olefin materials and produced in according to specifications ASTM C 1116 TYPE III GMP. These fibers are suitable for adding to concrete and mortars and have been specially studied for concrete industry. When fibers have been distributed homogeneously in the mixture, provide a reinforcement three-dimensional structure, which improves mechanical properties such as impact resistance, and also lead a long lasting for concrete and allow to control and minimize the cracking due to shrinkage. Two different versions are available according to the fiber length: 12 and 19 mm.

APPLICATION FIELDS

- Fiber length of 12 mm. Plasters, pre-mixing and repair mortars.
- Fiber length of 19 mm. Pre-cast, screed concretes and generally pumped concrete and inclined casting concrete tubes.
- Avoid and control of cracking due to shrinkage for concrete applications with a low volume to surface ratio such as industrial floors, pipes, prefabricated elements, slabs, etc.
- Shotcrete mortars.

ADVANTAGES

- Prevents the formation and the propagation of cracking by shrinkage.
- Increases the mechanical strengths for concretes or mortars; flexural, compression and impact.
- Compatible with other **BISEAL** admixtures.
- Resistant to alkaline compounds present in concrete.
- Does not reduce the workability of the concrete or mortars. Does not absorb water.
- Replaces the secondary reinforcement bars, which are recommended to minimize the cracking in concrete surfaces.
- Reduces partially the permeability of the concrete.
- Non-toxic.

APPLICATION INSTRUCTIONS

Mixing and application

BISEAL FIBER can be used in concrete industrial plants or in the job place. A suitable number of bags must be added directly into the mixer during the mixing step. However, avoid adding directly the fibers on the water. In order to get a better and homogeneous dispersion for the fibers into the concrete mixture, an increase in time for 5 minutes in the mixing is recommended.

CONSUMPTION

600 g per cubic meter of concrete or 140 g per bag of cement.

IMPORTANT INDICATIONS

- **BISEAL FIBER** does not replace the reinforcement bars for structure which have been established in calculus.
- **BISEAL FIBER** does not avoid carrying out methods for concrete curing if weather conditions require them.
- For further information or applications not included herein, consult our Technical Department.

PACKAGING

BISEAL FIBER is supplied in paper bags of 900, 600 and 140 g.

STORAGE

BISEAL FIBER does not cause to deteriorate itself along the time. However, it should be stored in its original unopened packaging, in a dry and covered place and protected from frost and sunlight.

SAFETY AND HEALTH

BISEAL FIBER is non-toxic and non-corrosive product.

Safety Data Sheet for **BISEAL FIBER** is available by request.

The final user must do disposal of the product and its empty containers according to official regulations.

TECHNICAL DATA

Fiber length (mm)	12 and 19
Specific weight (g/cm ³)	0,91
Melting point (°C)	> 160
Ignition point (°C)	> 590
Tensile strength, (MPa)	380 – 400
Elongation (%)	Max. 15
Young's elastic module, (MPa)	2.500 - 2.700
Water absorption	Nil
Acid resistance	High
Alkaline resistance	High
Salt resistance	High
Thermal conductivity	Low
Electric conductivity	Low

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. DRIZORO 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.



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Company certificated: ISO 9.001 & ISO 14.001

