



#### DESCRIPTION

**ISOMIX FIBRODUR** consists of polypropylene fibers. They are produced from pure polypropylene with hydrophilic surface processing, special additives and in suitable dimensions so that they can be easily dispersed in cementitious mixtures improving plastic properties and workability.

#### ADVANTAGES

- Crack prevention – reduction caused from contraction and shrinkage during the initial curing period of concrete application.
- Improvement of flexural, bending, tensile, impact strength as well as cracking and deterioration.
- Improvement of waterproofing properties of concrete, mortars and screeds.
- Improvement of weather, soiling and temperature effects.
- Protection against carbonization of concrete.
- Improvement of homogeneity, coagulation and coherence, reducing segregation and separation thus increasing compaction.
- Improved chemical, acid, alkali and salt resistance.
- Does not offer resistance to chlorinated hydrocarbon solvents over 60°C.
- Easy flow through pumps and spraying equipment

#### APPLICATIONS

**ISOMIX FIBRODUR** fibers have an extended application range such as:

- Floors (Industrial, stamped, cement paving slabs, concrete stepping slabs, concrete floor heating etc) building and repair mortars.
- Prefabricated concrete construction elements such as covings, lintels, paving elements, concrete fencing elements etc.
- Water tanks, swimming pools, silos, piping, irrigation channels etc.
- Spray concrete (GUNITE)
- Asphalt and plumbing ways

#### INSTRUCTIONS FOR USE

1. **FIBRODUR** fibers are easily mixed in most types of mixers.
2. Can be added in the dry mix or the wet mix.
3. **FIBRODUR** fibers can be added either in the concrete production plant or on site.
4. On site a period of one minute per cubic meter of mixture is required.

#### CONSUMPTION

Depends on type of use  
Mortars, renders and plasters: 0,6 kg/m<sup>3</sup>  
Industrial floors, screeds: 0,8 kg/m<sup>3</sup>  
Prefabricated elements: 0,9 kg/m<sup>3</sup>  
Spray concrete (shotcrete): >3 kg/m<sup>3</sup>

#### TECHNICAL CHARACTERISTICS

**Color:** White  
**Composition type:** 100%PP  
**Specific gravity :** 0,91 gr/cm<sup>2</sup>  
**Fiber diameter:** 25 ± 10 μm  
**Fiber length:** 6mm ± 10, 12mm ± 10  
**Number of fibers/kg:** 6mm : 243 million 12mm : 121 million  
**Tensile Strength:** 6mm: 550 N/mm<sup>2</sup>, 12mm: 550 N/mm<sup>2</sup>  
**Tensile elongation:** 30 ± 10%  
**Elasticity modulus:** 5,4 GPa  
**Melting point:** 165°C  
**Ignition point:** 570°C  
**Effect on consistence of concrete (900gr fibers/m<sup>3</sup> concrete):**  
6mm : 1.28s 12mm : 1.26s  
**Chemical resistance:** Excellent

#### STORAGE

Store in a dry place at a temperature above +4°C. Protect from frost and direct sunlight

#### SHELF LIFE

At least 18 months in the recommended conditions.

#### PACKAGING

Bags 900gr, 6mm

PACKAGING	CODE	BARCODE
900gr, 6mm	05117	5204094051039
900gr, 12mm	05080	5204094050834

Bags 900gr, 12mm



# Building Admixtures & Reinforcement Materials

## ISOMIX FIBRODUR

Technical Data Sheet

Reviewed: 06.06.2015

### HEALTH AND SAFETY INFORMATION



**H315** Causes skin irritation **H319** Causes serious eye irritation  
**EUH208** Contains 2-Octyl-2H-isothiazol-3-one; Glyoxal. May produce an allergic reaction **EUH210** Safety data sheet available on request **P280** Wear protective gloves / protective clothing/eye protection / face protection **P302 + P352** IF ON SKIN: Wash with plenty of water and soap **P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Contains Aluminium chloride , Sodium meta bisulfite

The directives contained in this technical data sheet are the result of our long experience from real life applications and the research testing of our research and development laboratory and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications, which are beyond our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments. We are liable only for our products for being free from faults and of consistent quality. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. The present edition of this technical datasheet automatically cancels any previous ones concerning the same product.



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