

Technical Datasheet

IZOZEN® FIBER PP

Monofilament Polypropylene Fibres

Description

IZOZEN® FIBER PP is a short-cut monofilament fiber made of polypropylene with additives, mixing, spinning, stretching and made by special process such as anti-static and anti-ultraviolet. It is special fiber for concrete and mortar, which can effectively control the cracks of concrete and mortar due to shrinkage, dry shrinkage and temperature changes, greatly improve the anti-crack and anti-penetrability performance as well as abrasion resistance and increase the toughness of concrete, thereby increasing the service life.

IZOZEN® FIBER PP provides the following properties:

- Reduced Plastic Shrinkage Cracks
- Enhance concrete impermeability and toughness
- Reduced Plastic Settlement
- Alternative to Crack Control Mesh
- Reduced Explosive Spalling in Fire
- Increased Abrasion Properties
- Increased Impact Resistance
- Improved Freeze/Thaw Resistance

Fields of application

IZOZEN® FIBER PP is mainly used in the following applications:

Internal Floor Slabs, Water Retaining Structures, Concrete Buildings, Repair Materials, External Hard Standings, Pattern Imprinted Concrete, Bridges, Precast Concrete, Fire Resistance, Extruded Concrete, Agricultural Areas, Piling Concrete, Shotcrete/Gunite

Technical data

Form:	100% Virgin Polypropylene
Colors:	Natural
Design:	Monofilament Fiber
Length:	3, 6, 12 & 18 mm
Initial Modulus GPa	≥3.5
Melting Point:	About 165
Acid Resistance:	Extreamly High
Alkali Resistance:	Extreamly High
Cold Resistance:	Good
Tensile Strength	≥400 [N/mm2]
Elongation:	90%
Melt Point:	160 °C
Ignition Point:	580 °C
Thermal Conductivity:	Low
mMgnetic:	Non

Directions for use

IZOZEN® FIBER PP Fibres should ideally be added at the batching plant; although in some instances this may not be possible and addition at site will be the only option.

If mixing at the batching plant, fibres should be the first constituent, along with half the mixing water. After all the other ingredients have been added, including the remaining mixing water, the concrete should be mixed for a minimum of 70 revolutions at full speed to ensure uniform fibre dispersion.

In the case of site mixing, a minimum of 70 drum revolutions is highly recommended.

Consumption

- The recommended amount of mortar per squire of ordinary plastering mortar is 0.9-1.2 kg, normally 1kg/m³
- The recommended amount of insulation mortar per ton is 1-3 kg.
- The recommended amount of concrete per cubic meter of concrete 0.6-1.8 kg, normally 0.9 kg/m³

Packaging

1 Kg bag



Toxicity
 Transport

Non-Toxic
 Non-hazardous.

Storage

IZOZEN® FIBER PP must be stored on a clean surface, in dry conditions under cover and away from the possibility of damage.

Remarks

IZOZEN® FIBER PP are extremely fine and although slightly visible at the plastic stage, are not readily seen on the hardened surface.

IZOZEN® Health and Safety Message

- Always wear safety goggles, Mask, Helmet when working with hazardous materials.
- Follow safety procedures at all times when using power tools.
- Make sure your work area is tidy and free of trip hazards.
- Watch where you're walking – don't run in the workplace!
- Always use the appropriate lifting technique when moving heavy objects.
- Keep jewelry and other loose objects away from machinery.
- Don't eat or drink near hazardous materials.
- Report unsafe conditions immediately to your supervisor.
- Wear the correct clothing for the job – no loose clothing or jewelry!
- Take regular breaks and stay hydrated while working.
- Always be aware of your surroundings.
- Always use personal protective equipment when working with chemicals.

IZOZEN® CHEMICALS (PRIVATE) LIMITED

Office No. 17, Sun Rise Arcade, Near DHA Phase II,
Gate II, Main G.T Road, Islamabad, Pakistan 44000
Phone No. 0092 (51) 441 9497
Email: information@izozen.com
Web: www.izozen.com

MANUFACTURING UNIT

Plot No. 38, Street NS-1, Rawat Industrial Estate,
Islamabad, Pakistan, 45900
Email: information@izozen.com
Web: www.izozen.com

