

BELMIX 12

POLYPROPYLENFIBERS

C E

CE Approved – Certificate N° C/ DE651XG552
EN 14889-2: 2006 and NB 1136 of 2008.03.14

Description of Product

BELMIX 12 is a 12mm long high-performance multifilament Polypropylenfiber, for use as an alternative to mesh reinforcement in concrete-mixtures in building-processes.

Fields of application

BELMIX 12, mixed into fresh concrete, thanks to their three-dimensional bound between millions of fibers and building materials, as well as a perfect homogeneity of the mixture, guarantee an optimal resistance of concrete specially in green-age, and avoids shrinkage crackings in the hart and on surface of any concrete realization..

- Industrial- and private floors
- Precast- elements
- Pavements and roads
- Printed concrete
- Architectonic concrete

Features and Benefits

▣ Practical & Economical:

- no special machinery is needed
- no skilled personal is needed
- no extra work involved in laying conventional mesh
- fiber-concrete can be pumped
- easier and faster laying of concrete floors
- reduces labour costs

▣ Technical:

- reduces shrinkage and improves green bound strenght
- avoid shrinkage-crackings
- no risk of corrosion
- no electricity-conductivity
- 100% alkali-resistant
- improved behaviour in fire
- increases mix-adhesion
- improves mechanical properties of final product

General Technical Datasheet

BELMIX 12

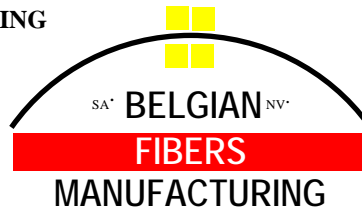
Weight	7 denier (+/- 10%)
Diameter	34μ
Length	12mm
Elongation	200%
Density	0,91Gr/cm3
Young Modulus	3750 MPa
Spinnig Oil	1%
Melting Point	> 164°C
Moisture	max. 3%
Tenacity	30Cn/tex

The low thickness of the fibers (34μ) with several millions of fiberunits/ Kg result in a low dosage of fibers per m³ and a perfect esthetical state of the realization (no cracks, corrosion or even fibers on the surface).

The 12mm lenght of **BELMIX 12** is based on the normalised international concrete-recipe, according to the grading-curve of concrete. This to preserve a perfect homogeneity of the mixture concrete + **BELMIX 12**- fibers as well as to guarantee an optimal resistance behaviour of the building-material in green-age-phase (first 3-5 hours).

Application Procedure

BELMIX 12 is added into the mixing-drum after the addition of sand, calibrated stones, (diameter 15/25) and cement. After a 2 min. recomanded dry-mix, water and eventual other chemical products are added and another 5min.mix is needed



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Dosage

BELMIX 12 is added at the rate of 900 or even 600Gr/m³.
In both cases fibered-concrete can be pumped and finished
with standard technologies.

Number of **BELMIX 12- Polypropylenfibers**
per *dosage* and *total linear* /m³

⌘ **900Gr/m³ = approx. 270.000.000 fiberunits/m³**
approx. 3240 Km of fibers /m³

⌘ **600Gr/m³ = approx. 180.000.000 fiberunits/m³**
approx. 2140 Km of fibers /m³

Packaging

The packaging in big-bags as well as pre-measured sachets
of **BELMIX 12 are Eurocode -Certified**, and available as follows:

- ⌘ Big-bags of 450Kg / 2 bags (pallet of 900Kg)
- ⌘ Bags of 25Kg / 24 bags (pallet of 600Kg)
- ⌘ Sachets of 900Gr / 35 boxes of 20 sachets (pallet of 630Kg)
- ⌘ Sachets of 600Gr / 35 boxes of 30 sachets (pallet of 630Kg)

Storage

Store in cool and dry conditions.

Shelf Life

Two years when stored in accordance with the
manufacturer's instructions.

Watchpoints BELMIX 12

Does never replace structural reinforcement
Replace only secondary reinforcement-steel mesh
Doesn't decrease concrete thicknesses

Health and safety

Inert, stable and insensitive to corrosion and
chemical products such as acides, salt and urine,
no particular precaution has to be taken.