



## **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/m<sup>3</sup>.  
In both cases fibered-concrete can be pumped and finished  
with standard technologies.

Number of **BELMIX 12- Polypropylenfibers**  
per *dosage* and *total linear* /m<sup>3</sup>

⊠ **900Gr/m<sup>3</sup>** = approx. **270.000.000 fiberunits/m<sup>3</sup>**  
approx. **3240 Km of fibers /m<sup>3</sup>**

⊠ **600Gr/m<sup>3</sup>** = approx. **180.000.000 fiberunits/m<sup>3</sup>**  
approx. **2140 Km of fibers /m<sup>3</sup>**

#### **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.