BELGIAN FIBERS MANUFACTURING
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BELMIX 6

FIBRES POLYPROPYLENES

CE Product Data Sheet

CE Approved- Certificate according to EN 14889-2: 2006 class Ia and manufactured in a ISO9001 certified facility.

Description

BELMIX 6 is a 6mm long high-performance multifilament Polypropylenfiber, for use as an alternative to mesh reinforcement in concrete-mixtures in building-processes.

Fields of application

BELMIX 6 , 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..

- screeds
- Small Precast- elements
- Printed concrete
- Architectonic concrete
- Tunneling Shotcrete and fire protection

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
  - improved behaviour in fire - spalling
  - 100% alkali-resistant
  - increases mix-adhesion
  - improves mechanical properties of final product

General Technical Datasheet
BELMIX 6

Weight	7 denier
Diameter	34µ(+/-1µ)
Length	6mm(+/-10%)
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 fiber numbers/ 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 6mm lenght of **BELMIX 6** is based on the normalized international concrete-recipe, according to the grading-curve of concrete. This to preserve a perfect homogeneity of the mixture concrete + **BELMIX 6**- 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 ideally added ad the batching plant into the premixer as an additional aggregates.
Belmix can added in the truck mixer on the jobsite or plant: Mixing at high drum speed , Mixing time of 1 min. per m³ to obtain a good fiber dispersion.

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BELMIX 6

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CE Product Data Sheet

Dosage

BELMIX 6 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 6- Polypropylenfibers** per *dosage* and *total linear* /m³

900Gr/m3 = approx. 540.000.000 fiberunits/m3
approx. 3240 Km of fibers /m3

600Gr/m3 = approx. 360.000.000 fiberunits/m3
approx. 2140 Km of fibers /m3

Packaging

The packaging in big-bags as well as pre-measured sachets of **BELMIX 6** ***are €urocode –Certified*** , and available as follows:

- Big-bags of 450Kg / 2 bags (pallet of 900Kg)
- Bags of 25Kg / 24 bags (pallet of 600Kg)
- Degradable sacks of 900Gr / 35 boxes of 20 sacks (pallet of 630Kg)
- DEgradable sacks of 600Gr / 35 boxes of 30 sacks (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 6

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

Health and safety

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

TDS : Technical data sheet PDS :Product Data Sheet
Version: 25/06/2013
Replace: 14/11/2014
Revued date: 28/02/2017 – Language En

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BELMIX 12

FIBRES POLYPROPYLENES

CE Product Data Sheet

CE Approved- Certificate according to EN 14889-2: 2006 class Ia and manufactured in a ISO9001 certified facility.

Description

BELMIX 12 is a 12mm long high-performance multifilament Polypropylene fiber, 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
- 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
  - improved behaviour in fire - spalling
  - 100% alkali-resistant
  - increases mix-adhesion
  - improves mechanical properties of final product

General Technical Datasheet
BELMIX 12

Weight	7 denier
Diameter	34µ(+/-1µ)
Length	12mm(+/-10%)
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 fiber numbers/ 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 normalized 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 ideally added ad the batching plant into the premixer as an additional aggregates.
Belmix can added in the truck mixer on the jobsite or plant: Mixing at high drum speed , Mixing time of 1 min. per m³ to obtain a good fiber dispersion.

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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 €urocode –Certified*** , and available as follows:

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

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

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BELMIX 18

FIBRES POLYPROPYLENES

CE Product Data Sheet

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Description

BELMIX 18 is a 18mm long high-performance multifilament Polypropylenfiber, for use as an alternative to mesh reinforcement in concrete-mixtures in building-processes.

Fields of application

BELMIX 18 , 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
- 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
  - improved behaviour in fire - spalling
  - 100% alkali-resistant
  - increases mix-adhesion
  - improves mechanical properties of final product

General Technical Datasheet
BELMIX 18

Weight	7 denier
Diameter	34µ(+/-1µ)
Length	18mm(+/-10%)
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 fiber numbers/ 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 18** is based on the normalized international concrete-recipe, according to the grading-curve of concrete. This to preserve a perfect homogeneity of the mixture concrete + **BELMIX 18**-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 18 is ideally added ad the batching plant into the premixer as an additional aggregates.
Belmix can added in the truck mixer on the jobsite or plant: Mixing at high drum speed , Mixing time of 1 min. per m³ to obtain a good fiber dispersion.

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BELMIX 18

FIBRES POLYPROPYLENES

CE **Product Data Sheet**

Dosage

BELMIX 18 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 18- Polypropylenfibers**
per *dosage* and *total linear* /m³

¤ **900Gr/m3 = approx. 180.000.000 fiberunits/m3**
approx. 3240 Km of fibers /m3

¤ **600Gr/m3 = approx. 120.000.000 fiberunits/m3** s
approx. 2140 Km of fibers /m3

Packaging

The packaging in big-bags as well as pre-measured sachets of **BELMIX 18** ***are €urocode –Certified*** , and available as follows:

- Big-bags of 450Kg / 2 bags (pallet of 900Kg)
- Bags of 25Kg / 24 bags (pallet of 600Kg)
- Degradable sacks of 900Gr / 35 boxes of 20 sacks (pallet of 630Kg)
- Degradable sacks of 600Gr / 35 boxes of 30 sacks (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 18

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

Health and safety

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

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