POLIMIX

concrete re-enforcing polypropylene fiber

POLIMIX is industrial re-enforcing fiber developed for concrete manufacturing. Besides monolith concretes, it is applicable for enforcing cement based concrete slabs and mortars. It dissolves homogeneously within the concrete creating a spatial-net by which it significantly reduces the cracks developing during the retraction phase. **POLIMIX** is resistant to chemicals and it enhances the dust free qualities and improves the impact- and abrasion resistance of the treated floor.

AREAS OF USE

- Industrial floors
- Different types of estrichs
- Light concretes
- Vacuum concretes
- Dry shake hardeners
- Pre-fabricated concrete products

FEATURES

- Raw material: polypropylene
- Shape: round
- Diameter: 16 micron
- Fiber length: 12 mm
- Fiber quantity: 275 million pcs/kg
- Specific weight: 0,91
- Flexibility modulus: 3500-3900 N/mm²
- Tensile Strength: 400 N/mm²
- Melting temperature: 160-170°C
- Flammable temperature: >320°C
- Electric conductivity: 0
- Chemical material resistance: good

INSTRUCTION MANUAL – BATCHING TO CONCRETE

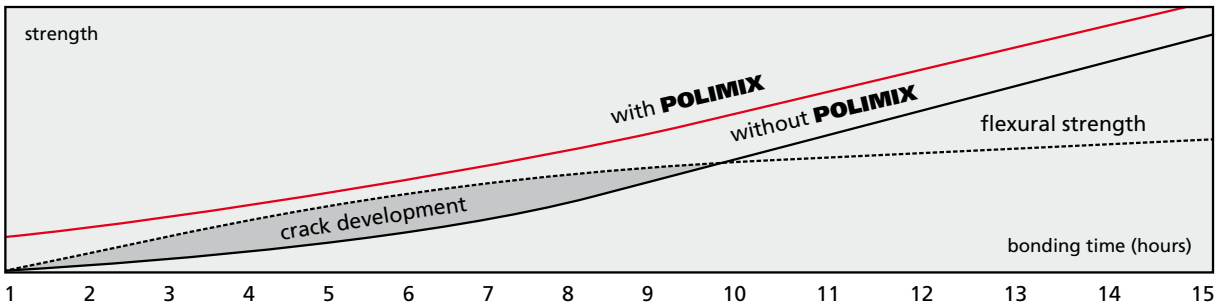
The application of **POLIMIX** is simple. The polypropylene fiber can be added directly to the mixer and mixed together with the concrete itself either at the mixing factory or on the construction site. The **POLIMIX** needs to be batched bag by bag. Before use, please double check the specified quantities and product qualities.
The paper bag perfectly dissolves in the concrete mixer. Extra water is not required to increase tractability, liquidizer can be used instead. The mixer needs to be operated in the highest rpm setting.
Mixing time: 7-10 minutes.
At the concrete factory, premix the material when dry and then add the necessary water. The batching can be done by either hand, pulley or other batching device. The dry mixing period should be at least 30 seconds and after adding the water, the mixer should be operated for at least 2-3 minutes. Pay special attention to the fiber distribution. The mixing time can differ depending on mixer size, mixer performance and the quantity of the material.

PACKAGING

Provided in 900 gram water-soluble paper bags. In case of special demands, we can offer different packaging or fiber lengths.

BEST BEFORE DATE

Indefinite.



DECLARATION OF PERFORMANCE

EN-CPR-FI01/102/2016

1. Unique identification code (name) of the product-type:

   Polimix

2. Type, batch or serial number or any other element allowing identification of the construction product:
   Not relevant

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:
   Polypropylene fiber for reducing micro cracking of the concrete

4. Name, registered trade name or registered trade mark and contact address of the manufacturer:
   Durostone Kft. – 2038 Sóskút, Ipari park 3508/23 hrsz., Hungary

5. Where applicable, name and contact address of the authorised representative:
   Not relevant

6. System or systems of assessment and verification of constancy of performance of the construction product:
   System 3

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:
   a.) **EN 14889-2:2007, Faserbeton 2002 Austrian technical guidelines**
   b.) name and identification number of the notified body:
   ÉMI Építésügyi Minőségellenőrző Kft. - NB 1415

   The above mentioned authority has made the examination of the product, the control of the producing company, the production process and executes a continuous control of the production and a random quality control of the products. The notified body has issued ÉME: A-922/2001, UE: A-2368/2012 ÉME technical approval.

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:
   Not relevant

9. Declared performance

Essential Characteristics	**Performance**	**Harmonised technical specification**
Dimensions Length (l) Diameter (d) Scale factor (λ)	 ≤ 30 mm ≤ 0,3 mm 1 200 ± 20%	MSZ EN 14889-2:2007
Appearance Shape Colour	 fibers white, grey	MSZ EN 14889-2:2007
Characteristics of reinforced concrete		
Effect on consistency Flow (mm) VEBE time (sec)	 reduction effect (min.15%) increasing effect (min.30%)	ÖVBB Richtlinie Faserbeton (2002) MSZ 4798-1:2004
Effect on shrinkage (mm)	reduction effect (max. 20% of etalon)	ÖVBB Richtlinie Faserbeton (2002)
Effect on bleeding (%)	reduction effect (max. 20% of etalon)	MSZ EN 480-4:2006
Effect on thaw and icing (kg6m^2)	reduction effect (max. 50% of etalon)	MSZ 4798-1:2004 MSZ CEN/TS 12390-9:2007
Compressive strength (N/mm^2)	no effect (max. 10% reduction)	MSZ EN 12390-3:2009

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.
    This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Ákos Révai managing director

Place and date of issue: Sóskút, 15.01.2016

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