FUTUR-MASTIC PU 600 ML

LOW ELASTICITY MODULE POLYURETHANE PUTTY FOR SEALING ACTIVE JOINTS AND CRACKS IN HIGH HUMIDITY CONDITIONS

Low modulus of elasticity putty for active expansion joints, which has been specially formulated to avoid bubbles during curing even in conditions of high temperatures or high humidity. The product has excellent thixotropy, allowing it to be used even in large expansion joints. Moisture curing forms an elastic sealant with a movement accommodation factor of 50% and excellent adhesion and grip even on supports traditionally problematic for polyurethane putties such as aluminum, iron, polycarbonate, etc. Its workability and gun extrusion is excellent regardless of temperature or humidity conditions.

PROPERTIES

Continuous bubble-free curing under severe weather conditions.
Excellent thixotropic properties.
Excellent adhesion on almost all supports, with or without the use of special primers.
Excellent workability and gun extrusion even at low temperature.
Great chemical resistance, suitable for treating joints in swimming pools and chemically treated water.
Low modulus of elasticity with a movement accommodation factor of 50%.
Great resistance to attack by fungi and microorganisms.
It supports its possible application under water.
Excellent heat resistance, suitable for applications with exposure to temperatures > 60ºC.
The product is resistant to cold and remains elastic at temperatures below -40ºC.

PHYSICAL-CHEMICAL CHARACTERISTICS

Appearance*:	Putty
Presentation:	600 ml sausages
Color:	White and Gray
Chemical nature:	Polyurethane
Density at 20 ºC*:	1,450 ± 0.050 Kg/L (20 ºC, ASTM D1475)
Shore A Hardness:	± 27
Service temperature:	-40 ºC to +80 ºC
Touch dry:	± 2 h (25 ºC)
Curing time:	3-4 mm/Day
Elongation at break:	> 700%
Module at 100% elongation:	0.3 N/mm2
Recovery:	> 90%
Toxicity:	No restrictions once cured
QUV (Weather Resistance):	> 2000 hours (4 h UV, 60 ºC, UVB, 4 h, 50 ºC)
Thermal stability:	Passes (100 days at 80 ºC)

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Adhesion to concrete:	> 20 Kg/cm2 (> 2 N/mm2)					
Product consumption:	Width-depth ratio:					
	Width/Depth	**5mm**	**10mm**	**15mm**	**20mm**	**25 mm**
	5mm	24	12			
	10mm			4	3	2.4
	15mm					1.6

Complies with the requirements of Annex III (EU) No. 305/2011 and EN15651 Part 1 and 4: One-component polyurethane sealant for joints on facades, floors or pavements:		
Features	Results	Harmonized standard
Reaction to fire	Class E	EN ISO 11925-2
Elasticity recovery	> 70%	EN ISO 7389
Flow resistance	< 3 mm	EN ISO 7390
Tensile strength	< 0.4 MPa	EN ISO 8339
	<09MPa	EN ISO 8339
Tensile strength in sustained extension	NF	EN 8340
Adhesion/cohesion properties at variable temperature	NF	EN ISO 9047
Loss of mass/volume	< 10%	EN ISO 10563
Tensile properties in maintained extension after immersion in water (4 days)	NF	EN ISO 10590
Tensile force (movement capacity 50%)	NF	EN ISO 8340
Application requirements:		
Tensile properties in maintained extension after immersion in water (28 days)	NF	EN ISO 10590
Tensile properties in maintained extension after immersion in salt water (28 days)	NF	EN ISO 10590
Adhesion/cohesion properties after exposure to heat, water and artificial light through crystal	NF	EN ISO 11431
Manufactured in accordance with ISO 1160 Standard: - Type F. Class 25Lm. Complies with DIN-18540-F/ASTM C920/US Specification TT-S-00230C, Type II Class A		

* Quality specifications.

MODE OF USE

Before applying the product, check that the support is clean and free of traces of oil, grease, silicone, contaminating waxes or soil materials. If repair is needed, apply appropriate repair mortars.
It is necessary to start from a porous concrete support, without grout and free of curing liquids. Minimum compressive strength of concrete: 15 N/mm2. Minimum tensile strength of concrete: 1 N/mm2.
If in doubt, carry out a test before application.
In most applications no primer is required. We recommend doing an adhesion test beforehand. If applied to very porous supports, a sealant must be used to prevent bubbles from forming.
Form bellows and joint bottom to control the depth of the sealing. Apply the product avoiding air being trapped in the joint. Handle immediately after application.

Use width/depth ratios of 2:1, with a minimum depth of 10 mm. Curing time: 2-3 mm/day.

Once the container is opened, we recommend its complete consumption.

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Stable for 12 months from its manufacturing date, in its original, well-closed and undamaged container. Store in a dry and cool place at temperatures between +5ºC and +25ºC.

To clean materials and utensils, use soapy water before the product hardens. Once the product has hardened it can only be removed by mechanical means.

APPLICATIONS

Very useful in all types of construction companies, quick repair contracts, general masonry, community maintenance, building repair and restoration, high-resistance epoxy industrial flooring, etc.

Application as:
Sealing active joints and cracks, grouting concrete walls, joints in concrete slabs, prefabricated panels, brick or block work, marble and granite.

Water tanks, canals, buried walls, basements, elevator pits, etc.
Industrial sealing in general, in the automotive or glass industry, sealing in ventilation units, air conditioners, door frames, metal or aluminum panels or windows, tanks, pipes, etc.

Limitations:
Do not apply to unsanitized surfaces. In very porous supports, with sandy or loosely compact concrete, bubbles may appear; it is recommended to properly seal the floor before applying the product.
It generally supports repainting, but we recommend a prior test.

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