

SAINT-GOBAIN

MARIFLEX® PU 30

Low-Modulus
Polyurethane
Joint-Sealant Mastic

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**Product Description** 

MARIFLEX® PU 30 is a thixotropic, permanent elastic, cold applied and cold curing, polyurethane mastic used for caulking and joint-sealing.

#### Product Information

- One-component, low-modulus polyurethane elastomer.
- Ground & air moisture-cured.

## Packaging

- 0,600ml sausage
- 0,310ml cartridges

#### Color

Grey, White\*\*

#### ■ Shelf Life

• 12 months from date of production

## Storage Conditions

• Product should be stored in dry and cool rooms for up to 12 months. Protect the material against moisture and direct sunlight. Storage temperature: 5°-35°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

#### Advantages

- Simple application
- Resistant to weathering
- Resistant to constant movement
- Resistant to water, heat and frost
- Maintain its mechanical properties over a temperature span of -30°C to +90°C
- Provides excellent adhesion to most construction materials
- Resistant to detergents, oils, fuels and seawater





## Uses

#### MARIFLEX® PU 30 is used for:

- Expansion & sealing joints in almost all building substrates
- Joint sealing of interior/exterior movement joints
- Crack filling mastic joints between wooden, metal, aluminum or PVC frames and masonry

# Consumption

Consumption depends on volume of the joint or crack to be sealed.

## Certifications



PROPERTY	RESULTS	TEST METHOD
Composition	Polyurethane mastic (pre-polymer)	
Elongation at Break	600%	DIN 53504
Modulus of elasticity (at 100%)	0.40 N/mm <sup>2</sup>	DIN 53504
Tensile Strength	1.2 N/mm <sup>2</sup>	DIN 53504
Hardness (Shore A Scale)	15-25	DIN 53505, ASTM D 2240
Application Temperature	5°C to 35°C	Inhouse Lab
Skin formation time	15 min (at 23°C, 50%RH)	Inhouse Lab
Polymerized thickness after 24 hours	3 mm (at 23°C, 50%RH)	Inhouse Lab
Resistance to flow at 23°C	<u>&lt;</u> 3mm	ISO 7390
Resistance to flow at 50°C	<u>&lt;</u> 3mm	ISO 7390
Chemical Properties	Good resistance against water, cleaning agents,	
	and accidental spray with oils, hydrocarbons,	
	acidic and basic solutions (10%).	
	Due to the sensitivity of polyurethane to UV	
	rays, light shades change colour. This change in	
	appearance does not modify their mechanical	
	properties or leak tightness.	



# SEALANT FOR FAÇADE ELEMENTS: EN-15651-1: F-EXT-INT-CC SEALANT FOR PEDESTRIAN WALKWAYS: EN-15651-4: PW-EXT-INT-CC

Essential Characteristics	Performance	Harmonized technical specification
Reaction to fire	Е	EN 15651-1/EN 15651-4
Resistance to flow	<u>&lt;</u> 3mm	EN 15651-1/EN 15651-4
Loss of Volume	<u>&lt;</u> 10%	EN 15651-1/EN 15651-4
Tensile Properties after immersion in water	No Failure	EN 15651-1/EN 15651-4
Tensile Properties	<u>&lt;</u> 0,4	EN 15651-1/EN 15651-4
Tensile Properties for nonstructural sealants used		
in cold climates (-30°C)	<u>&lt;</u> 0,9	EN 15651-1/EN 15651-4
Tensile Properties at maintained extension (-30°C)	No Failure	EN 15651-1/EN 15651-4
Adhesion/Cohesion at variable temperatures	No Failure	EN 15651-1/EN 15651-4
Durability	Pass	EN 15651-1/EN 15651-4







## Application

#### Surface Preparation

The surface needs to be clean, dry and sound, free of oils or any contamination, which may harmfully affect the adhesion of the mastic. Remove all loose material. Concrete surfaces must be dry and stable (at least 28 days). Moisture content should not exceed 5%.

Users must check that the mastic is compatible with the surface in terms of adhesiveness, staining and chemical compatibility (test a section first).

#### Making the joint:

Correctly size the joint. We recommend a width between 10 and 30 mm. The Width / depth ratio of the joint should be about 2:1.

#### Movement joint sealing for Roof waterproofing purposes:

Apply some MARIFLEX® PU 30 Joint-Sealant on the bottom of the joint only. Then with a brush, apply a stripe layer of MARISEAL® 250, 200mm wide centered over the joint. Place MARISEAL® FABRIC over the wet coating and with a suitable tool, press it deep inside the joint, until it is soaked and the joint is fully covered from the inside. Then fully saturate the fabric with enough MARISEAL® 250. Then place a polyethylene cord of the correct dimensions inside the joint and press it deep inside onto the saturated fabric. Fill the remaining free space of the joint with MARIFLEX® PU 30 sealant and allow 12 hours to cure.

#### Priming

Priming is only necessary if adhesion test has shown poor adhesion. In this case prime absorbent surfaces, like concrete, screed and wood with MARISEAL® 710 primer. Prime non-absorbent surfaces like metal and ceramic tiles with MARISEAL® AQUA PRIMER.

#### Sealing

After the primer has dried, press a flexible, non-adhesive joint filler (polyethylene cord), in the joint. The joint filler should be free of holes to ensure that bubbles do not form in the joint.

Apply MARIFLEX® PU 30 mastic with special pistol by hand or pneumatic guns (max. required pressure: 3,5 kg). When applying avoid air entrapment. Smooth with joint nail or putty knife. For a better finish, use protection strips.

For narrow joints, apply the mastic in one movement. For very wide joints, apply the mastic in three places: the first two on the edges of the joint and the third on the filler. Smooth out with soapy water. Press the mastic against the edges and the joint filler while taking care not to create air bubbles. Remove protection strips.

May be painted after polymerization is complete. Use acrylic or vinyl dispersion paints after testing a section.

## Safety measures

MARIFLEX® PU 30 contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data sheet. PROFESSIONAL USE ONLY.

Our technical advice for use, whether verbal or written, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We may guarantee only that our products are compliant with their technical specification; correct application of our products therefore falls entirely within your scope of liability and Users are responsible, in any case, for complying with local legislation and for obtaining any required approvals or authorizations, when necessary, either for their purchase and/or for their use. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our Technical department. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice.

\* All values represent typical values and are not part of the product specification. \*\*: The applied sealant might yellow and/or fade upon UV exposure.