

MASTERFLEX[®] 472

Single component, polyurethane based, elastomeric joint sealant

Description of Product

Masterflex 472 is a single component joint sealants material based upon polyurethane resins.

Fields of Application

Masterflex 472 has been especially formulated for

- interior and exterior use
- joint sealant for walls, and ceilings
- joint sealant for expansion joints in buildings and civil works
- sealant for prefabricated concrete elements
- for use on joints with up to 25% movement

Contact the Technical Department of your local BASF Construction Chemicals office regarding any application required not mentioned here.

Features and Benefits

- High level of elasticity (up to 25%)
- Excellent recovery capacity
- High resistance to weather and ageing. Resistant in tropical climates
- Does not harden over time, even at temperatures between -30° C and + 80° C
- Does not exhibit thermoplasticity. (Does not soften with heat).
- Excellent UV resistance
- Good non-sag properties, suitable for vertical surfaces and soffits.
- Early resistance to rain.
- Forms a blister-free surface.
- Single component, easily applied
- User friendly – excellent extrudability/gunability

Technical Data/Typical Properties

Typical Property	Masterflex 472
Density	Approx. 1.30 g/cm ³
Temperature for application	Between +5°C and +35°C
Permanent expansion capacity	Approx. 25%
Skin formation @20°C	Approx. 1h30min
Temperature resistance	Between -30°C and +80°C
Cure speed	Approx. 2 mm / 24 hours
Hardness Shore A	15 - 25
Elongation at break (ISO 8339):	> 600%
Recoverability	> 80%
Modulus of elasticity (ISO 37) @20°C	Approx. 0.25 N/mm ²

Colours

Grey, White, Black, Brown and Beige

Storage

Cool dry warehouse conditions

Shelf Life

12 months in unopened original containers when stored as indicated above

Application Procedure

Preparation of Substrate

Must be clean, sound and dry. All traces of dust, oil and other dirt must be removed.

It is especially important to remove traces of laitence and cement grout. In general, a minimum direct tensile strength of 1.5N/mm² is required.

For the joint sealant to function correctly it is essential that bond breaker tape or polyethylene closed cell backer rod be used to regulate joint depth and prevent three sided adhesion.

Joint design

Again to ensure long term performance the depth of the joint should be designed to be approximately half of the width especially on joints >25mm wide.
(See table below)

Optimum joint design

Joint Depth [mm]	Joint Width [mm]				
	10	15	20	25	30
10	XXX	XXX	XXX		
12.5				XXX	
15					XXX

Priming

On well prepared dry, sound concrete older than 28 days, masonry or metal or glass surfaces Masterflex 472 does not require a primer.

For all other situations use a primer as indicated below:

Porous substrates; e.g. concrete, masonry, renders:
Elastoprimer 135

Non-porous substrates; e.g. metals, ceramics:
Elastoprimer 145

Application

The product is supplied ready for application. Cut open the foil sausage (or the nozzle) at one end and place in a manual or pneumatic gun and apply immediately. The product should be tooled smooth with a spatula or with non-alcoholic liquid to create a concave surface free of bubbles. It can be applied directly both horizontally and vertically.

PLEASE NOTE

Masterflex 472 is not suitable for:

- exposure to chemicals
- permanent exposure to water
- contact with foodstuff
- natural stones

The colour shades can be affected by environmental influences (e.g. UV radiation), however a change in the colour shade does not affect the properties of the product.

Do not use any smoothing agents containing alcohol!

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Health and Safety

Contains isocyanate prepolymers. Avoid contact with eyes and skin. Keep out of reach of children. Ensure good ventilation during the application. For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

Disclaimer

The information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, because of numerous factors affecting results we offer this information without any guarantee and no patent liability is assumed. All products should be used in accordance with the Manufacturer's instructions. No responsibility can be taken by the manufacturer where conditions of use are beyond our control.
It is the responsibility of the user to obtain the most up-to-date data sheet which supersedes all previous literature.