



The Chemical Company

MASTERFLEX[®] 472

Single component, polyurethane based, elastomeric joint sealant

DESCRIPTION

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.

FEATURES AND BENEFITS

- High level of elasticity
- Excellent recovery capacity
- High resistance to weather and ageing
- Resistant in tropical climates
- Service temperature between -20°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

TYPICAL PERFORMANCE DATA

Density	Approx. 1.30 g/cm ³
Temperature for application	Between +5°C and 40°C
Movement Accomodation Factor	± 25%
Skin formation @ 20°C	Approx. 1 hr 30mins
Cure speed	Approx. 2 mm/24 hrs
Hardness - Shore A	> 25
Elongation at break (ISO 8339:2005):	
Mortar:	40%
Metal:	40%
Recoverability	75%
Modulus of elasticity (ISO37) @20°C	Approx. 0.25 N/mm ²

Meet ASTM C920:08 Standard Specifications for Elastomeric Joint Sealants. (Please contact our BASF representative to obtain a copy of the test report.)

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.

The coverage in lineal metres for a 600ml pack:

Joint Depth (mm)	Joint Width (mm)						
	6	9	12	15	20	25	30
6	16	11	8				
8				5			
10				4	3		
12					2	2	
15						2	0.5

Note: The figures do not include wastage.

Priming

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

We recommend to use primer 733 or 766 on support mortars or likened to which the aspect of surface gets closer to some mortar (surface ribband and absence of roughness)

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.

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Note : MASTERFLEX 472 is not suitable for :

- Exposure to chemicals
- Permanent exposure to water
- Contact with foodstuff

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.

COLOUR

Grey, white, Black, Beige and other colour available upon requested with minimum quantity applied.

PACKAGING

MASTERFLEX 472 is available in 600ml foil sausages or 20 sausages per carton.

SHELF LIFE

MASTERFLEX 472 can be kept for 12 months from date of manufacture, if stored in a dry & enclosed place without exposing to direct sunlight at temperature between 10°C to 25°C.

PRECAUTIONS

Health: **MASTERFLEX 472** does not contain any hazardous substances requiring labelling.

It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc.

For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions in the product Material Safety Data Sheet.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

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