

# MasterSeal<sup>®</sup> NP 472

Single component, polyurethane based, elastomeric joint sealant

## DESCRIPTION

**MasterSeal NP 472** is a single component joint sealant material based upon polyurethane resins.

## RECOMMENDED USES

**MasterSeal NP 472** has been especially formulated for

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

## FEATURES AND BENEFITS

- High level of elasticity (up to 25%)
- Excellent recovery capacity
- High resistance to weather and ageing
- Resistant in tropical climates
- Service temperature 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

## PERFORMANCE DATA

Density	Approx. 1.30 g/cm <sup>3</sup>
Temperature for application	Between +5°C and 35°C
Movement Accommodation Factor	Approx. 25%
Skin formation @ 20°C	Approx. 1hr 30mins
Temperature resistance	Between -30°C and +80°C
Cure speed	Approx. 2 mm/24 hrs

Hardness - Shore A	20 -25
Elongation at break (ISO 8330):	> 600%
Recoverability	> 80%
Modulus of elasticity (ISO37) @20°C	Approx. 0.25 N/mm <sup>2</sup>

## APPLICATION

### 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/mm<sup>2</sup> 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

### Priming

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

### Application

The product is supplied ready for application. Cut open the foil sausage at one end and place in a manual or pneumatic gun and apply immediately.

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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.

**Note:** MasterSeal NP 472 is not suitable for

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

## COLOUR

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

## PACKING

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

## SHELF LIFE

MasterSeal NP 472 can be stored for 9 months if stored at cool dry warehouse conditions.

## PRECAUTIONS

For the full health and safety hazard in formation and how to safely handle and use this product, please make sure that you obtain a copy of the Master Builders Solutions Construction Chemicals Material Safety Data Sheet (MSDS) from our office or our website.

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### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication is 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 commonwealth or State legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

### NOTE

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