

# MasterSeal<sup>®</sup> NP 472

One part polyurethane based elastomeric joint sealant

## DESCRIPTION

**MasterSeal NP 472** is a high performance one component, moisture curing, polyurethane construction sealant. In properly designed and constructed joints the product has been formulated to offer a non - slump elastomeric seal, which exhibits good skin formation time and a fast cure.

## TYPICAL USES

**MasterSeal NP 472** has been developed specifically for sealing dynamically moving joints such as; expansion and control joints. **MasterSeal NP 472** demonstrates high elasticity and recovery properties and therefore may be used to bond and seal most common building materials including concrete, glass, wood, stone, metal and anodised aluminium. In addition **MasterSeal NP 472** has excellent tear resistance and good weathering characteristics.

## ADVANTAGES

- Durable resilient seal
- Non Staining
- Primer Free (except M1 smooth mortar)
- Demonstrates good resistance to dilute acids and alkalis
- Different colors available

## PACKAGING

**MasterSeal NP 472** is supplied in 600ml sausage cartridge.

## STANDARDS

Conforms to ISO 11600 Class F25LM on anodized aluminum and mortar.

Conforms to ASTM C920 Type S, Grade NS, Class 25, use NT and M.

Conforms to DIN 18540

## TECHNICAL DATA\*

Skin formation time (23°C, 50% HR)	~75'
Rate of cure in mm 24 hours (23°C, 50% HR)	≥ 2.5mm
Resistance to flow 23°C ISO 7390	≤ 3mm
50°C ISO 7390	≤ 3mm
Shrinkage ISO 10563	≤ 10%
Temperature of application	+5°C ≤ T ≤ +40°C
Specific gravity	1.3g/cm <sup>3</sup>
Shore A Hardness ISO 868	15-25
Modulus ISO 8339	0.15-0.25MPa
Elongation at break ISO 8339	>250%
Ultimate Elongation at break ASTM D412	900%
Tensile strength ASTM D412	1.3MPa
Elastic recovery ISO 7389	>70%
Movement capability	25%
Service Temperature	-20°C to + 80°C

## APPLICATION

### Preparation:

To ensure excellent adhesion the joint profile including the arises should be clean, sound, dry and free from any loosely adherent material which could prevent adequate bond to the substrate.

UV exposure may cause **MasterSeal NP 472** White to discolour. This does not affect the **MasterSeal NP 472** performance.

### Application:

**MasterSeal NP 472** shall be applied using a conventional sealant application gun, ensuring enough sealant is applied to facilitate the correct width to depth ratio for the joint. Following the application the sealant must be tooled into place to ensure adequate adhesion with the joint profile is achieved. Finally tool to a neat finish using a solution of soap and water onto a gloved finger or tooling stick.

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## CHEMICAL RESISTANCE

MasterSeal NP 472 has resistance to:

Dilute acids and alkalis	Medium
Ultra violet light	Good
Saline solutions	Excellent.

## CONSUMPTION

Applicable joint length with a 600ml cartridge (in meters)

Joint depth (mm)	Joint width (mm) approx.				
	4	6	8	12	20
4	37.5	25	18.7	12.5	7.5
6	-	16.6	12.5	8.3	5.0
8	-	-	9.3	6.2	3.7
10	-	-	-	5.0	3.0

## EQUIPMENT CLEANING

It is recommended that MasterSeal NP 472 be removed immediately from tools etc using a solvent (toluene or xylene) before curing takes place. Cured material can only be removed by mechanical means.

## APPLICATION TEMPERATURE RANGE

Minimum +5°C  
Maximum +40°C

## STORAGE AND SHELF LIFE

MasterSeal NP 472 has a shelf life of 12 months from production date when stored in its original packaging at temperatures between 5°C and 25°C.

## HEALTH AND SAFETY

Contains isocyanates, contact with the skin or eyes should be avoided, if ingested, DO NOT induce vomiting. Seek medical attention immediately. Refer to product MSDS

## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY AND CARE

All Master Builders Solutions Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and Master Builders Solutions ESHQ recommendations.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC-Group in many countries

## CONTACT

Should you require any further information, please do not hesitate to contact us:

[www.master-builders-solutions.com/en-sa](http://www.master-builders-solutions.com/en-sa)  
[enquirycc.saudi@mbcc-group.com](mailto:enquirycc.saudi@mbcc-group.com)

M: +966 13 853 8600

Master Builders Solutions Saudi Arabia for Manufacturing LLC.

P.O. Box 1884, Al Khobar, KSA

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### Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with Master Builders Solutions and possible resulting damages are in the sole responsibility of the customer.

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