

# MasterSeal® NP 472

(Formerly known as MASTERFLEX 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 colours available

### PACKAGING

**MasterSeal NP 472** is supplied in 310ml and 600ml cartridges.

### COLOURS

**MasterSeal NP 472** is available in: Concrete Grey (RAL 7004), Off White (RAL 1015) and White (RAL 9010)

### 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% RH)	120 mins
Rate of cure in mm 24 hours (23°C, 50% RH)	≥ 2.5mm
Resistance to flow 23°C ISO 7390 50°C ISO 7390	≤ 3mm ≤ 3mm
Shrinkage (ISO 10563)	≤ 10%
Temperature of application	+5°C to +40°C
Specific gravity	1.2g/cm <sup>3</sup>
Shore A Hardness (ISO 868)	15-20
E-Modulus at 100% (ISO 8339)	0.15-0.20N/mm <sup>2</sup>
Elongation at break (ISO 8339)	>500%
Elastic recovery (ISO 7389)	>70%
Movement Accommodation Factor	±25%
Service Temperature	-30°C to +70°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.

Long term UV exposure may cause **MasterSeal NP 472** 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 BASF representative.

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

## QUALITY AND CARE

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

\* Properties listed are based on laboratory controlled tests.

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## STATEMENT OF RESPONSIBILITY

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## NOTE

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