

MasterSeal[®] 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 APPLICATIONS

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 AND COLORS

MasterSeal NP 472 is supplied in 310ml cartridge and 600ml sausage.

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

Note: The colours mentioned are closest match to the RAL Nos.

STANDARDS

Conforms to ISO 11600 Class F25LM on anodized aluminum and mortar.
 Conforms to ASTM C920 Type S, Grade NS, Class 25, Use T1, NT, A and M
 Conforms to DIN 18540

TYPICAL PROPERTIES*

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	≤ 3mm
50°C ISO 7390	≤ 3mm
Shrinkage (ISO 10563)	≤ 10%
Temperature of application	+5°C to +40°C
Specific gravity	1.2g/cm ³
Shore A Hardness (ISO 868)	15-20
E-Modulus at 100% (ISO 8339)	0.15-0.20N/mm ²
Elongation at break (ISO 8339)	>500%
Elastic recovery (ISO 7389)	>70%
Movement capability	±25%
Service Temperature	-30°C to +70°C

APPLICATION GUIDELINES

SURFACE 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.

PLACING / 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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APPLICATION TEMPERATURE RANGE

Minimum	+5°C
Maximum	+40°C

CHEMICAL RESISTANCE

MasterSeal NP 472 has resistance to:

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

COVERAGE / YIELD

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

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.

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.

QUALITY AND CARE

All products originating from Master Builders Solutions 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 ISO 45001.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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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