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MasterSeal® NP 474 (Formerly known as MASTERFLEX 474)

Versatile, single component, elastomeric polyurethane sealant

DESCRIPTION

MasterSeal NP 474 is a single component, gun grade, elastomeric joint sealant based upon polyurethanes resins.

RECOMMENDED USES

MasterSeal NP 474 is recommended for internal and external sealing of construction and expansion joints in both vertical and horizontal situations, on a variety of substrates such as concrete and metals. It is also suitable for movement joints in submerged areas. Application areas include

- Parking decks
- Warehouse, production area floors and pavements
- Reservoirs
- Window perimeter
- Weatherproofing joints in curtain walls
- Precast parapet panels in bridges and flyovers

MasterSeal NP 474 is not recommended for use on weak substrates, such as the insulating panels used in EIFS, please consult BASF for advice.

FEATURES AND BENEFITS

- High modulus and hardness makes **MasterSeal NP 474** tough and resistant to mechanical loads.
- Excellent movement accommodation of $\pm 25\%$ helps maintaining moving joints airtight and watertight.
- UV resistant- suitable for external applications.
- Wide service temperature range –suitable for all climatic conditions.
- Can be over painted – enables aesthetic finishing.
- Easy extrudability –easy to apply

PROPERTIES

Density,g/ml	1.3 \pm 0.1
Extrudability,ml/min	>150
Skinning time, hour	1½
Sagging@50°C,mm	\leq 2
Tensile modulus on mortar substrates@23°C,MPa	0.4-0.5

Hardness, Shore A,	35 \pm 5
Elasticity recovery at 60% and 100% extension, mortar substrates,%	\geq 80
Elongation at break,@23°C	>600%
Service temperature,°C	-40to+80
Testing Method: JC/T482-2003 High modulus standard	

The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.

APPLICATION

For information on joint design, application and curing, refer to “Application Guide for Joint Sealants” available from your local BASF Construction Chemicals representative.

Tips for optimal performance

- Design joint dimensions and spacing to allow a movement of $\leq 25\%$ of joint width.
- Repair joints as necessary to obtain even faced, uniformly wide joint along the entire length.
- Ensure joint width is maximum 40mm and the depth of sealant is half the width of the joint.
- Remove all contaminants that affect adhesion.
- Prime porous / moist substrates. Priming does not eliminate need for good surface preparation.
- Gun the sealant without allowing air pockets in the beads and finish to slightly concave profile.
- Do not use soap-water to profile sealant.
- Protect from mechanical damage until cured.

ESTIMATING DATA

Sealant width (in mm) times its height (in mm) gives quantity (in ml) required per running meter of joint.

The table below gives the length of joint that can be sealed (in meter) per sausage, excluding wastage, for some common joint sizes:



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Width, mm	5.0	10.0	12.0	15.0	20.0	25.0	30.0
Depth, mm	5.0	10.0	12.0	7.5	10.0	12.5	15.0
Length, m (per sausage)	24.0	6.0	4.16	5.3	3.0	1.8	1.3

PACKAGING

MasterSeal NP 474 is available in 600ml foil sausages; 20 sausages per carton. Available in white, black and grey

SHELF LIFE

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months when stored in undamaged original packaging, well protected from humidity in an enclosed place and stored between 10°C to 30°C.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice please consult BASF's Technical Services Department.

PRECAUTIONS

For detailed Environmental, Health and Safety information, please consult and follow all instructions on the product Material Safety Data Sheet. Contact your local BASF office for the latest version.

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STATEMENT OF RESPONSIBILITY (Disclaimer)

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.

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NOTE

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