

# MASTERFLEX® 474

Versatile, single component, elastomeric polyurethane sealant

## DESCRIPTION

**Masterflex 474** is a single component, gun grade, elastomeric joint sealant based upon polyurethane resins.

## RECOMMENDED FOR

**Masterflex 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

**Masterflex 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 **Masterflex 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

## PERFORMANCE DATA

Density, g/ml	1.3 $\pm$ 0.1
Extrudability, ml/min	> 150
Skinning time, hour	1½
Sagging@ 50° C, mm	≤2
Tensile modulus on mortar substrates @ 23°C, MPa	0.4-0.5
Hardness, Shore A,	35 <sup>+5</sup>
Elasticity recovery, at 60% and 100% extension, mortar substrates,%	≥80
Elongation at break, @ 23°C	>600%
Service temperature, °C	- 40 to + 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.

## 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:

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

## APPLICATION

For information on joint design, application and curing, refer to “Application Guide for **Masterflex 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.

## COLOUR

Available in white, black and grey.

## PACKAGING

**Masterflex 474** is available in 600ml foil sausages; 20 sausages per carton.

## SHELF LIFE

**Masterflex 474** has a shelf life of 12 months when stored in undamaged original packaging, well protected from humidity in an enclosed place and stored between 10°C to 30°C.

## PRECAUTIONS

Store or use away from sources of fire and ignition. Use appropriate protective clothing, gloves, eye protection and dust masks while handling the product. Use only with adequate ventilation or use respiratory protection during



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application. Wash hands and face thoroughly before consuming food.

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF 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 **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. **BASF Construction Chemicals data sheets are updated on a regular basis and it is the user's responsibility to obtain the most recent issue.**

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## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.

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