

# MASTERSEAL® 678

Rapid curing, chemical resistant, polyurea waterproofing membrane

## DESCRIPTION

**MASTERSEAL 678** is a solvent free, two component, high performance polyurea based waterproofing membrane, with high resistance to common chemicals. Using a specially designed spraying machine, the two components are pre-heated and spray applied, to a rapid curing, elastomeric, waterproofing membrane.

## RECOMMENDED FOR

**MASTERSEAL 678** is recommended for waterproofing of large structures exposed to aggressive waters.

Typical application areas include:

- Water containment areas.
- Primary & Secondary containment tanks
- Waste water treatment tanks
- Protection & waterproofing of infrastructures.

## FEATURES AND BENEFITS

**Fast reacting** - Rapid installation. Does not run when applied on vertical surfaces

**Seamless** - No risk of leaky seams and laps.

**Spray applied** - Fast installation on large surfaces; easy application on complex details.

**Fully bonded** - Eliminates water collection behind membrane even if punctured.

**High tensile strength** - Excellent ability to accept movements without rupturing.

**Elastomeric** - Excellent crack-bridging ability.

**High tear resistant** - Minimised risk of damage to membrane in service.

**Low T<sub>g</sub> of -20°C** - Remains elastomeric at very low temperatures. Performance unaffected in below freezing conditions.

**Solvent-free** - Improved safety.

## PERFORMANCE DATA

Shore A hardness, DIN 53505 sprayed	90-95
Tensile strength, DIN 53504, N/mm <sup>2</sup>	16 N/mm <sup>2</sup>
Elongation, DIN 53504, %	>500
Tear strength, ASTM D624, kg/cm	>70

## Properties

Mixing ratio, A : B, by volume	1:1
Density, at 25°C, kg/L	Part A 1.03 Part B 1.10
Viscosity, at 25°C, cps	Part A 1000 <sup>±150</sup> Part B 1250 <sup>±200</sup>
Gel time (approx), tack free	6-10 secs 60-120 secs
Application temperature of Parts A & B	65-70°C
Application temperature (ambient and substrate), °C	10 to 40
Permissible max. relative humidity during application, %	85

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

**MASTERSEAL 678** is applied approximately at 1.05 – 2.1 kg/m<sup>2</sup>. This corresponds to a cured film thickness of approx. 1.0 – 2.0mm. Details, corners require a higher coverage rate up to 4.0kg/m<sup>2</sup> or more.

## APPLICATION

For information about application, please obtain a copy of the BASF "Application Guide for Materseal 688" from your local representative.

### Tips for optimal performance

- For optimum chemical and mechanical performance thickness's greater than 1.5mm should be used.
- Keep **MASTERSEAL 678** cool in hot weather and warm in cold weather.
- Repair voids, cracks and unevenness in substrates before application.
- Remove all surface contaminants and ensure substrate is dry.
- Avoid application during rain.
- Homogenise Part A before application.
- Apply by spraying uniformly to recommended thickness using recommended spray machine.



The Chemical Company

# MASTERSEAL® 678

## CLEANING

Clean tools, machine parts with Methylene Chloride.

## PACKAGING

MASTERSEAL 678 part A and B is supplied in 200kg drums.

## SHELF LIFE

Store in unopened, original containers under dry conditions at a temperature between 15-25° C. Do not expose to direct sunlight.

## PRECAUTIONS

Like most resin products, this resin based product is toxic and highly irritant in nature. Vapours generated while handling, if inhaled, can irritate air passage and lungs and can even cause nausea. To persons allergic to chemical vapours and strong smells, inhalation can cause breathing difficulties.

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** 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

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**, are responsible for carrying out procedures appropriate to a specific application.

**BASF Australia Ltd**  
A.B.N. 62008437867  
Head Office: 11 Stanton Road Seven Hills, NSW 2147  
Ph. (02) 8811 4200

Newcastle (02) 4961 3819  
Canberra (02) 6280 6010  
Brisbane (07) 3633 9900  
Townsville (07) 4774 7344  
Melbourne (03) 9549 0300

Adelaide (08) 8139 7500  
Perth (08) 9366 2600  
Darwin (08) 8984 3269  
Kalgoorlie 0417 772 355

**BASF New Zealand Ltd**  
**BASF WEB SITES**

Head Office: 45 William Pickering Drive, Albany, Auckland Ph: (09) 414 7233  
www.basf-cc.com.au www.basf-cc.co.nz www.meyco.basf.com