

# MasterSeal® 878

**Rapid curing, chemical resistant, elastomeric waterproofing membrane**

## DESCRIPTION

**MasterSeal 878** 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 USES

**MasterSeal 878** is recommended for waterproofing of large structures exposed to aggressive waters, containing potable water and other containment structures..

Typical application areas include:

- Water containment areas (potable and contaminated )
- 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 resistance** - Minimized 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
- **Potable water contact approved** – suitable for tanks containing drinking water.

## PROPERTIES

Shore A hardness, ASTM D 2240	>85
Tensile strength, D412	>16 N/mm <sup>2</sup>
Elongation, ASTM D 412	>500%
Tear strength, ASTM D624, KN/m	>70
Impact Resistance ASTM D91	passes
Weathering QUV 1000 hours no cracking or delamination	passes
Suitable for contact with potable water USFDA	Passes

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±150
	Part B 1250±200
Gel time	~10-15
tack free	seconds ~60-120 seconds
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.

## APPLICATION

For information about application, please obtain a copy of the Master Builders Solutions “Application Guide for **MasterSeal 878**” from your local representative.

### Tips for optimal performance

- For optimum chemical and mechanical performance thickness's greater than 1.5mm should be used.

## MasterSeal® 878

- Keep **MasterSeal 878** 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.
- Agitate Part A before application.
- Apply by spraying uniformly to recommended thickness using recommended spray machine.

### ESTIMATING DATA

**MasterSeal 878** 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.

### PACKAGING

**MasterSeal 878** part A and B is supplied in 200kg drums.

### SHELF LIFE

**MasterSeal 878** has a shelf life of 12 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall

### PRECAUTIONS

It is highly recommended to use necessary PPE (Gloves, mask etc.,) during installation of the product. In case of Incidents of direct inhalation, causing dizziness/giddiness, loss of consciousness, contact with eyes etc, seek immediate medical advice. The requirements may vary depending on the application areas. Please ensure to have proper ventilation while working in confined areas. Contact Master Builders Solutions representative in case you need further details or refer to the material safety datasheet of the product to know more.

**MasterSeal878/02/0616**

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