

# MasterSeal<sup>®</sup> 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.

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- 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

Please refer the Material Safety Data Sheet for handling and storage of this product.

**MasterSeal878/02/0616**

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**Master Builders Solutions India Private Limited**  
Registered office: Plot No D-126,  
TTC Industrial Area, MIDC,  
Shiravane, Navi Mumbai - 400706,  
Maharashtra, India  
Tel: +91 8657906776  
E-mail: [Construction-india@mbcc-group.com](mailto:Construction-india@mbcc-group.com)  
[www.master-builders-solutions.com/en-in](http://www.master-builders-solutions.com/en-in)

