

# MATACRYL THIX

## A thixotropic version of Matacryl Manual

February 2024

### PRODUCT:

Matacryl Thix is a viscous, urethane-modified, prereacted 100% solid membrane system based on acrylic monomers. To initiate curing, just add Matacryl Catalyst.

### USAGE:

Matacryl Thix is designed as a simple to apply, highly elastomeric liquid waterproofing membrane and coating, for vertical and inclined substrates. The cured product is a very flexible crack-bridging membrane that retains its flexibility and crack-bridging performance in service even when the temperature reaches  $-20^{\circ}\text{C}$ .

The areas of application for Matacryl Thix include:

- As a Bridge Deck waterproofing membrane, on to which asphalt at temperatures up to  $250^{\circ}\text{C}$  can be directly applied.
- For sub-grade waterproofing of Buildings and Civil Engineering Structures, including below-grade Slabs.
- Waterproofing of concrete and metal Railway bridges including directly under track ballast.
- Waterproofing of Pedestrian and Vehicular trafficable areas (Balconies, Car Parks etc.)
- Protection and waterproofing of Tunnels, Channels and Dam structures.
- Waterproofing of containment structures including Reservoirs and waste and contaminated material storage structures.
- Offshore platforms.

Matacryl Thix can be applied at a wide range of ambient and substrate temperatures ( $-10^{\circ}\text{C}$  to  $+35^{\circ}\text{C}$ ) onto cementitious based screeds, concrete, filled bitumen/asphalt, metal, ceramic tile and wood substrates.

### STANDARD PACKS:

30 kg units.

### PROPERTIES:

### KEY BENEFITS:

- Highly flexible
- Excellent crack bridging characteristics
- Easy to apply
- Excellent waterproofing properties
- Very high impact and puncture resistance
- Good chemical and abrasion resistance
- Fully cured one hour after application

#### Liquid State

Viscosity, $25^{\circ}\text{C}$	4000 mPa*s	DIN 53018
Density, $25^{\circ}\text{C}$	1.36 g/ml	ISO 2811
Pot life/processing time at $20^{\circ}\text{C}$	15 min.	
Curing time at $20^{\circ}\text{C}$	approx. 60 min.	
Flash Point	$+11.5^{\circ}\text{C}$	ISO 1516

#### Cured State tested at $20^{\circ}\text{C}$

#### Cured State samples conditioned at $-20^{\circ}\text{C}$ for 24hrs before testing

Tensile strength	6.7 N/mm <sup>2</sup>	ISO 527	Tensile strength	7.1 N/mm <sup>2</sup>	ISO 527
Elongation	320%	ISO 527	Elongation	340%	ISO 527
Modulus of elasticity	65 MPa	ISO 527	Modulus of elasticity	460 MPa	ISO 527
Abrasion 1000 cycles	64 mg	ISO 7784-2	Dynamic crack-bridging	>5 mm	BPG
Dynamic crack-bridging	>5 mm	BPG			
Shore A hardness	>85 IRHD	NFP 98285			
Shore D hardness	55	DIN 53505			

Please note that an objective comparison with other data is only possible if norms and parameters are identical.

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### SUBSTRATE PREPARATION:

The area to be waterproofed must be dry, firm, solid and free of dust, fat and oil. Laitance and loose particles must be removed thoroughly, e.g. by shot blasting. Fats or oils as well as humidity can be removed by flame blasting for example. Before application of Matacryl Thix, a suitable Matacryl Primer, including sand-blasting when appropriate, must be first applied. For further details, see our general preparation and application guidelines for Matacryl waterproofing systems.

### MIXING:

Prior to use, Matacryl Thix must be carefully stirred to achieve a uniform distribution of agents contained in the product. Matacryl Thix is then thoroughly mixed together with the Matacryl Catalyst (50% dibenzoyl peroxide), in accordance with the following guidelines.

It should be noted that the amount of catalyst powder to be added depends upon the substrate temperature.

At 30°C:	Add 200 grams of catalyst to a pail of 30 kg
At 20°C:	Add 350 grams of catalyst to a pail of 30 kg
At 10°C:	Add 700 grams of catalyst to a pail of 30 kg
At 0°C:	Add 1200 grams of catalyst to a pail of 30 kg
Below -5°C:	Add 1200 grams of catalyst to a pail of 30 kg and additionally add Matacryl Accelerator. Please contact your Equus Representative for further details.

**Note:** Weight to Volumetric conversion of Catalyst. 1 cc of Matacryl Catalyst weighs 0.64gm. 1gm of Matacryl Catalyst = 1.57 cc

### APPLICATION:

Matacryl Thix is designed to be manually applied using a brush, roller or squeegee.

### CONSUMPTION:

For product consumption per m<sup>2</sup>; please consult the System Build-up Sheets.

Per layer of membrane; a minimum thickness of 1mm (=1.23kg/m<sup>2</sup>) should always be applied per coat.

### SHELF LIFE:

6 months when stored in a cool and dry place and in originally closed packaging. The optimal storage temperature is 15-20°C.

### HEALTH AND SAFETY:

Protective clothing, gloves and safety goggles must be worn when filling, mixing or handling of Matacryl Thix. When the product is applied in enclosed areas without natural ventilation, forced ventilation must be arranged. Avoid strong concentration of vapour as well as direct contact with skin or eyes. For further information see our Safety Data Sheet.

### WARNINGS AND BANS:

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?	No
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### MANUFACTURERS CONTACT DETAILS:

Manufacture location	Australia
Legal and trading name of manufacturer	Tremco CPG Pty Ltd.
Manufacturer address for service	12/4 Southridge Street, Eastern Creek, NSW 2766, Australia
Manufacturer website	
Manufacturer email	orders@tremco.com.au
Manufacturer phone number	+61 2 4648 0397