

# PMMA-BASED WATERPROOFING COATING

## Technical Data Sheet



### PMMA-BASED WATERPROOFING COATING

A solvent-free, rapid-curing and highly flexible liquid applied membrane system. It delivers durable emergency surface repair and long life cycle waterproofing and corrosion protection.

The Waterproofing system is applied together with a tough fleece reinforcement to increase membrane strength.

### PRODUCT DESCRIPTION

A solvent-free, 2-component, fast curing and highly flexible methacrylate waterproofing resin system.

### APPLICATION AREAS

- Flat and Pitched Roof Areas
- Metal Clad Profile Roofing Areas
- Gutter Waterproofing
- Balcony Waterproofing
- Deck and Flooring Waterproofing
- Glass/Glazing Waterproofing
- Car Parking
- Vents and pipes
- Rainwater outlets
- Parapet walls
- Rooflights
- HVAC and ducting
- Walkways
- Many existing substrates

### PRODUCT

This is a solvent-free 2-component methacrylate waterproofing resin system

### PACKAGING

10kg container

### SHELF LIFE

6 months if stored in the unopened original container in dry (min 5°C) frost-free location

### STORAGE

Store in safe place out of reach of children

### INFORMATION ON SAFETY AND RISKS

Please refer to the safety data sheets for the products used

### KEY BENEFITS

- Fast cure properties ensure the surface will be quickly watertight and Hard Dry after 60 minutes (at 20°C and PMMA Catalyst dosage of 2% w/w.)
- Suitable for use on flat and pitched roof systems, and as a waterproofing roof membrane
- Liquid application allows easy, effective waterproofing of large and small surface areas with the most complicated details and penetrations securely incorporated
- Highly flexible and crack-bridging even at extreme sub-zero temperatures
- Can be applied to almost all substrates, including variable substrates (when combined with appropriate primers)
- Excellent UV and weather resistance
- Solvent-free
- Excellent resistance to ponded water
- Can be applied in temperatures as low as 0°C up to 30°C. And for substrate temperatures of -10°C, please refer to PMMA Additive LT Technical Data Sheet.

### PRODUCT INFORMATION

Volume Solids	100%
Typical Thickness	1000 microns per coat (depending on system)
Theoretical Coverage	1.3kg/m <sup>2</sup> per mm thickness
PMMA Catalyst	2 - 6% (% by weight). See "PMMA Catalyst Dosages"

#### APPLICATION DETAILS

Waterproofing Layer : PMMA-Based Waterproofing liquid Coating

For mixing the product: Twin paddle mixer, steel container

Method of application: Brush, roller

Thinner: Do not thin

Cleaner: PMMA Cleaning Agent 10 litre

#### PMMA CATALYST DOSAGES

Substrate Temperature	PMMA Catalyst % w/w.	Pot Life approx. min	Hardening Time approx. min
0°C	6.0	20	80
+10°C	4.0	15	60
+20°C	2.0	15	60

For substrate temperatures of -10°C, please refer to PMMA Additive LT Technical Data Sheet.

#### SURFACE PREPARATION

Ensure all areas are clean, dry and free from dust, dirt, corrosion and general surface contamination. All oils, grease, etc. should be removed with suitable degreasing solution. Always prime the substrate (see PMMA-Based Universal Primer).

#### ADVICE ON APPLICATION

Due to exothermic reaction with mixing process, please ensure the product is mixed in a steel container. First stir the PMMA-Based Waterproofing liquid Coating with a paddle mixer thoroughly. Then add the PMMA Catalyst while stirring the waterproofing liquid coating at a slow speed. Mix for 1 - 2 minutes.

You must not dose less than the given quantity of PMMA Catalyst, as this will jeopardize the curing process.

You must also avoid overdosing the PMMA Catalyst, as this can likewise lead to serious curing problems.

The material must be applied as soon as the PMMA Catalyst has finished dissolving in the resin components.

#### APPLICATION CHARACTERISTICS

Characteristics of PMMA-Based Waterproofing Coating as delivered

Property	Measuring Method	Approx. Value
Viscosity at +20°C	DIN 53 015	2,000 – 3,000 mPa · s
Viscosity at +20°C (thix)		Pasty
Density D <sub>4</sub> <sup>20</sup>	DIN 51 757	1.13 g/cm <sup>3</sup>
Flash point	DIN 51 755	+10°C
Pot life at +20°C (100g, 2 % w/w PMMA Catalyst)		Approx. 15 min.
Processing temperature (substrate temperature)		0°C to + 30°C

Characteristics of PMMA-Based Waterproofing Coating in the hardened state

Property	Measuring Method	Approx. Value
Adhesive pull strength	EN ISO 527	>2 N/mm <sup>2</sup>
Tensile stress at break	EN ISO 527	3.3 N/mm <sup>2</sup>
Crack bridging		1.55 mm
Elongation at break	EN ISO 527	157 %

### STORAGE AND HANDLING

Storage: Store in a safe place out of the reach of children.

Pack Size: 10Kg.

Shelf Life: 6 months if stored in the unopened original container in a dry (min. 5°C) frost-free location.

### SAFETY ADVICE

A copy of the appropriate Health & Safety Data Sheet should be consulted prior to using the product. This can be faxed if urgently required.

Minimum precautions for all paints:

1. Avoid skin and eye contact i.e. wear gloves, goggles, etc.
2. Ensure good ventilation, mechanical if necessary.
3. Store and use away from heat and flame.
4. Do not eat or smoke in the vicinity of work.
5. Wash hands before eating.

Refer to supply container for additional warning labels

### EQUIPMENT CLEANING

If work is interrupted or when it is completed, clean the tools thoroughly with cleaning agent within the pot life of the material. This can be done with a brush. Do not use the tools again until the cleaning agent has evaporated fully. Simply immersing the tools in the cleaning agent will not prevent the material from hardening.

### INFORMATION ON SAFETY AND RISKS

Please refer to the safety data sheets for the products used.

### GENERAL INFORMATION

The above information, especially information about application of the products, is based on extensive development work as well as many years of experience and is provided to the best of our knowledge. However, the wide variety of requirements and conditions on site mean that it is necessary for the product to be tested to ensure that it is suitable for the intended purpose.

Only the most recent version of this document is valid. We reserve the right to make changes to reflect advances in technology or improvements to our products.

### DEFINITIONS

<b>Practical Coverage</b>	Practical coverage can vary considerably depending on method of application, surface roughness, weather conditions and complexity of the structure.
<b>Pot Life</b>	Applies only to two component products and refers to the time the mixture remains usable.

### DISCLAIMER

The information contained herein is to the best of our knowledge true and accurate and is given in good faith but without warranty.

The user will be deemed to have satisfied him/herself independently as to the suitability of our products for his/her own particular purpose. In no event shall Cactus Industrial be liable for consequential or incidental damages.

This document will normally be updated at least every two years. It is the users' responsibility to ensure that they have the current copy.