



**PMMA-BASED SELF-LEVELLING MORTAR**

A solvent-free, fast-reactive, flexibilised and filled self-smoothing mortar. It's a 3-component methacrylate compound that delivers outstanding impact resistance, while its high elasticity ensures lasting crack-bridging.

This is a versatile technology that can be used a hard wearing layer for waterproofing, thick-film layer and equalising layer.

**PRODUCT DESCRIPTION**

A solvent-free, 3-component, fast-reactive, flexibilised and filled PMMA-based self-levelling mortar.

**APPLICATION AREAS**

- Walkways
- Lay Down Areas
- Decks
- Floor repairs
- Warehouses
- Machine Shops
- Workshops
- Chemical Plants
- Water Treatment Plants
- Storage Areas
- Plant Rooms
- Breweries
- Pharmaceutical Plants
- Steel Works

**KEY BENEFITS**

- Fast cure properties ensure the Self-Leveller is Hard Dry after 40 minutes (at 20°C and PMMA Catalyst dosage of 1% pbw.)
- It's a versatile technology that can be used as a hard wearing layer for waterproofing, a thick-film layer and an equalising layer
- Levels out damaged areas of up to 10mm height differences when used as an equalising mortar
- Creates runoffs in unwanted water ponding areas
- It delivers outstanding impact resistance
- Its high elasticity ensures lasting crack bridging
- Can be applied in temperatures as low as 5°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	Minimum 4mm
Theoretical Coverage	1.7kg/m <sup>2</sup> per mm thickness
PMMA Catalyst	1 - 3% (% by weight). See "PMMA Catalyst Dosages"

**CHARACTERISTICS OF PMMA-BASED SELF-LEVELLING MORTAR 4 - 7mm**

Property	Measuring Method	Approx. Value
Compressive strength	DIN 1164	25 N/mm <sup>2</sup>
Tensile stress in bending	DIN 1164	15 N/mm <sup>2</sup>
Specific weight		1.7 g/cm <sup>3</sup>

**PRODUCT**

This is a 3-component fast-reactive, flexibilised and filled PMMA-based self-levelling mortar

**PACKAGING**

10kg PMMA-Based Self-Levelling Resin and 20kg PMMA-Based Self-Levelling Mortar Filler

**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

**APPLICATION DETAILS**

For mixing the product: Twin paddle mixer, steel container

Method of application: Coating trowel with triangular teeth (notch pattern 92) or smoothing trowel

Thinner: Do not thin

Cleaner: PMMA Cleaning Agent 10 litre

**PMMA-BASED SELF-LEVELLING MORTAR COMPONENTS**

10kg	PMMA-Based Self-Levelling Resin
20kg	PMMA-Based Self-Levelling Mortar Filler
0.20kg	PMMA Catalyst (2 x 0.10kg)
<b>= 30.20kg</b>	

**PMMA CATALYST DOSAGES**

Substrate Temperature	PMMA Catalyst % pbw.	Pot Life approx. min	Hardening Time approx. min
5°C	3.0	20	60
+10°C	2.0	15	40
+15°C	1.5	15	40
+20°C	1.0	15	40

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 Self-Levelling Resin with a paddle mixer thoroughly. Then add PMMA-Based Self-Levelling Mortar Filler while stirring at a medium speed. Mix for up to 3 minutes. Lastly, add PMMA Catalyst while stirring the resin and filler mix 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**

PMMA-Based Self-Levelling Mortar as delivered

Property	Measuring Method	Approx. Value
Viscosity at +20°C	DIN 53 015	1000 mPa · s
Flow time at +20°C, 6mm cup	ISO 2431	135 – 165 sec.
Density D <sub>4</sub> <sup>20</sup>	DIN 51 757	0.98 g/cm <sup>3</sup>
Flash point	DIN 51 755	+10 °C
Pot life at +20°C (100g, 2 % pbw PMMA Catalyst)	Approx. 15 min.	
Application temperature	+5°C to + 30°C	

#### STORAGE AND HANDLING

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

Packaging: 10kg PMMA-Based Self-Levelling Resin and 20kg PMMA-Based Self-Levelling Mortar Filler

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.