

# Product Data Sheet

## STARCOAT PMMA P PRIMER

**Starcoat PMMA P Primer is part of the Starcoat PMMA liquid waterproofing system. It is a fast-reactive primer for porous substrates in preparation for the later application of Starcoat PMMA waterproofing or surfacing products.**

### Material

2-component, fast-reactive / fast-curing PMMA-based (polymethyl-methacrylate) resin primer.

### Properties and advantages

- Fast-curing
- Easy to apply
- Very good adhesion on absorbent substrates
- Solvent-free
- Hydrolysis-and alkali-resistant

## Areas of Application

Starcoat PMMA P Primer is used for the pre-treatment (primer and barrier) of slightly porous mineral and timber substrates (concrete, screed, wood, etc) in preparation for the subsequent application of Starcoat PMMA waterproofing/surfacing products.

## Packaging

Summer		Winter	
5.00 kg	Starcoat PMMA P Primer	5.00 kg	Starcoat PMMA P Primer
0.20 kg	Starcoat PMMA Catalyst (2 x 0.1 kg)	0.30 kg	Starcoat PMMA Catalyst (3 x 0.1 kg)
5.20 kg		5.30 kg	
Summer		Winter	
10.00 kg	Starcoat PMMA P Primer	10.00 kg	Starcoat PMMA P Primer
0.30 kg	Starcoat PMMA Catalyst (3 x 0.1 kg)	0.60 kg	Starcoat PMMA Catalyst (6 x 0.1 kg)
10.30 kg		10.60 kg	

## Colours

Starcoat PMMA P Primer is available in the following standard colours:

- Unpigmented
- White

## Storage

Products should be stored sealed in their original airtight container and in a cool, dry, frost-free place. Unopened products have a shelf life of at least 6 months. Direct sunlight on the containers should be avoided, including on site. After removing some of the contents, reseal the containers so they are airtight.

## Application conditions

### Temperatures

The product can be applied within the following temperature ranges:

Product	Temperature range in °C		
	Air	Substrate*	Material
Starcoat PMMA P Primer	+3 to +35	+3 to + 50*	+3 to +30

\*the substrate temperature must be at least 3°C above the dew point during application and curing.

## Moisture

The relative humidity must be  $\leq 90\%$ . The surface to be coated must be dry and protected from moisture until the coating has hardened.

Substrates containing residual moisture, e.g. young concrete, can be coated if they have set sufficiently and the substrate is properly prepared. Refer to the appropriate application guide for information about correct surface preparation.

## Reaction times and required amounts of catalyst

	Starcoat PMMA P Primer (at 20°C, 3% Starcoat PMMA Catalyst)
Pot life	approx. 10 minutes
Rain-proof after	approx. 30 minutes
Can be walked on / overcoated after	approx. 30 minutes
Curing time	approx. 2 hours

Higher temperatures or greater proportions of Starcoat PMMA Catalyst will reduce reaction times, while lower temperatures and smaller proportions of Starcoat PMMA Catalyst will increase reaction times.

The following table indicates the recommended amount of Starcoat PMMA Catalyst required to adjust the curing reaction to the temperature.

Product	Substrate temperature in °C / required amounts of Starcoat PMMA Catalyst in % (guide)												
Starcoat PMMA P Primer	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
	-	-	6%	6%	4%	4%	2%	2%	2%	2%	1%	1%	1%

## Consumption rates

Substrate	Consumption
Smooth	0.40 kg/m <sup>2</sup>
Fine-sandy	0.50 kg/m <sup>2</sup>
Rough	0.80 kg/m <sup>2</sup>

## Technical Data

Substrate	Consumption
Unpigmented	1.06 g/m <sup>3</sup>
White	1.08 kg/m <sup>3</sup>

## Application

<b>Application equipment/tools</b>	For mixing product:	Twin paddle stirrer
	For applying the product:	Lambswool roller Brush (only for areas not accessible with roller)
<b>Substrate preparation</b>	The Starcoat PMMA P Primer must only be applied to a prepared substrate. Refer to the appropriate application guide for information about correct surface preparation.	
<b>Mixing</b>	Stir the contents of the tub thoroughly. Add the Starcoat PMMA Catalyst while stirring at a slow speed setting and mix for 2 minutes. Ensure that the product on the base and sides of the container is mixed in. At product temperatures <10°C the product should be stirred for 4 minutes as the Starcoat PMMA Catalyst will take longer to dissolve.	
<b>Application</b>	Use the lambswool roller to apply an even film-forming coat of primer. Avoid creating puddles of primer. Once the coating has cured apply a second coat to cover any defects (i.e. bubbles, areas not fully coated).	
<b>Preparation for subsequent layers</b>	For the subsequent application of Starcoat PMMA Mortar: Once the primer has hardened, apply a second layer and top with a little quartz sand (0.1 – 0.2 kg/m <sup>2</sup> at 0.2 – 0.6 mm) while the primer is still wet. The sand topping creates the necessary key for application of the mortar. Never apply the topping to the first coat of primer.	
<b>Cleaning</b>	If work is interrupted or when it is completed, clean the tools thoroughly with Starcoat Universal Cleaning Agent within the pot life of the product (approx. 10 minutes). This can be done with a brush. Do not use the tools again until the Starcoat Universal Cleaning Agent has fully evaporated. Simply immersing the tools in the Cleaning Agent will not prevent the material from hardening.	
<b>Safety and risks</b>	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 the document is valid. We reserve the right to make changes to reflect advances in technology or improvements to our products. Axter Ltd makes no warranties, express or implied, as to the properties and performance under any variations from such conditions in actual construction.