

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 used as a barrier on absorbent 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.
- Can also be applied at sub-zero temperatures.
- Solvent-free.
- Hydrolysis- and alkali-resistant.

Areas of application

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

Packaging

| Summer | | Winter | |
|---------------|----------------------------------------|---------------|----------------------------------------|
| 5.00kg | Starcoat PMMA P Primer | 5.00kg | Starcoat PMMA P Primer |
| 0.20kg | Starcoat PMMA Catalyst (2 x 0.1kg)* | 0.30kg | Starcoat PMMA Catalyst (3 x 0.1kg)* |
| 5.20kg | | 5.30kg | |

| Summer | | Winter | |
|----------------|----------------------------------------|----------------|----------------------------------------|
| 10.00kg | Starcoat PMMA P Primer | 10.00kg | Starcoat PMMA P Primer |
| 0.30kg | Starcoat PMMA Catalyst (3 x 0.1kg)* | 0.60kg | Starcoat PMMA Catalyst (6 x 0.1kg)* |
| 10.30kg | | 10.60kg | |

| Summer | | Winter | |
|----------------|----------------------------------------|----------------|----------------------------------------|
| 25.00kg | Starcoat PMMA P Primer | 25.00kg | Starcoat PMMA P Primer |
| 0.80kg | Starcoat PMMA Catalyst (3 x 0.1kg)* | 1.60kg | Starcoat PMMA Catalyst (6 x 0.1kg)* |
| 25.80kg | | 26.60kg | |

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. For more information about correct surface preparation, refer to the application section in the appropriate product data sheet (PDS).

Reaction times and required amounts of catalyst

| Product | 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) | | | | | | | | | | | | |
|------------------------|-----------------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| | -10 | -5 | +3 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| Starcoat PMMA P Primer | - | - | 6% | 6% | 4% | 3% | 3% | 2% | 2% | 1% | 1% | 1% | 1% |

Consumption rates

| Substrate | Consumption |
|------------|-----------------------|
| Smooth | 0.40kg/m ² |
| Fine-sandy | 0.50kg/m ² |
| Rough | 0.80kg/m ² |

Technical Data

| Substrate | Consumption |
|-------------|----------------------|
| Unpigmented | 1.06g/m ³ |
| White | 1.08g/m ³ |

Product application

Application equipment/tools

| | |
|---------------------------|-------------------------------------------------------------------------|
| For mixing product: | Twin paddle stirrer. |
| For applying the product: | Sheepskin roller. Brush (only for areas not accessible with roller). |

Substrate preparation

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.

Mixing

Stir the contents of the tub thoroughly.
Add the Starcoat PMMA Catalyst while stirring the resin 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 5 minutes as the Starcoat PMMA Catalyst will take longer to dissolve.

Application

Use the sheepskin 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).

Preparation for subsequent layers

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 – 0.2kg/m² at 0.2 – 0.6mm) 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.

Cleaning

If work is interrupted or when it is completed, clean the tools thoroughly with Starcoat PMMA Cleaner 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 PMMA Cleaner has fully evaporated. Simply immersing the tools in the Starcoat PMMA Cleaner will not prevent the material from hardening.

Safety and risks

Please refer to the Safety Data Sheets (SDS) for the products used.

General information

The above product and application information is based on extensive development work and 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.

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