

Technical Data Sheet

STARCOAT PMMA A PRIMER

Starcoat PMMA A Primer is part of the Starcoat PMMA cold applied liquid waterproofing system. It is a fast-reactive primer used as a barrier on asphalt substrates in preparation for the application of Starcoat PMMA waterproofing or surfacing products.

It is a high-grade, mechanically durable finish that can be supplied in a wide range of colours and can also be used for creating patterns or lettering. Various different toppings can be applied to achieve the desired slip-resistant properties.

Material

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

Properties and advantages

- Fast-curing
- Very good adhesion to asphalt substrates
- Easy to apply
- Can also be applied at sub-zero temperatures
- Solvent-free
- Hydrolysis-and alkali-resistant

Areas of application

Starcoat PMMA A Primer is used for the pre-treatment (primer and barrier) of asphalt substrates (e.g. liquid applied mastic asphalt and rolled asphalt) in preparation for the subsequent application of Starcoat PMMA waterproofing/surfacing products.

Packaging

Summer		Winter	
5.00 kg	Starcoat PMMA A Primer	5.00 kg	Starcoat PMMA A 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 A Primer	10.00 kg	Starcoat PMMA A 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 A Primer is available in the following standard colours:

- Clear (unpigmented, slightly yellow)
- 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 A Primer	-5 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.

The substrate temperature must not be less than +3°C if a topping is applied to the surface (see later section on Preparation for subsequent layers). Reaction problems can occur at lower temperatures.

Moisture

The relative humidity must be ≤ 90 %.

The surface to be coated must be dry and ice-free. It must be protected from moisture until the coating has hardened.

Reaction times and required amounts of catalyst

	Starcoat PMMA A Primer (at 20°C, 3% Starcoat PMMA Catalyst)
Pot life	approx. 15 minutes
Rain-proof after	approx. 30 minutes
Can be walked on or over-coated after	approx. 45 minutes
Curing time	approx. 3 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 A Primer	-	6%	6%	6%	4%	4%	2%	2%	2%	2%	1%	1%	1%	

Consumption rates

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

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Density (clear)	1.03 g/m ³
Density (white)	1.03 g/m ³

Application

Application equipment/tools	For mixing product:	Twin paddle stirrer
	For applying the product:	Lambswool roller Brush (only for areas not accessible with roller)
Substrate preparation	The Starcoat PMMA A Primer must only be applied to a prepared substrate. Refer to the appropriate application guide for information about correct surface preparation.	
Mixing	<p>Stir the contents of the tub thoroughly.</p> <p>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.</p> <p>At product temperatures <10°C the product should be stirred for 4 minutes as the Starcoat PMMA Catalyst will take longer to dissolve.</p>	
Application	<p>Use the lambswool roller to apply an even film-forming coat of primer. Avoid creating puddles of primer.</p> <p>Once the coating has cured apply a second coat to cover any defects (i.e. bubbles, areas not fully coated).</p>	
Preparation for subsequent layers	<p>For the subsequent application of Starcoat PMMA Mortar:</p> <p>Once the primer has hardened, apply a second layer and top with a little quartz sand (0.1 – 0.2 kg/m² 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.</p>	
Cleaning	<p>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.</p> <p>Simply immersing the tools in the Cleaning Agent will not prevent the material from hardening.</p>	
Safety and risks	Please refer to the Safety Data Sheets 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.