Technical Data Sheet

STARCOAT PMMA LV PRIMER

Starcoat PMMA LV Primer is part of the Starcoat PMMA liquid waterproofing system. It is a low viscosity, fast-curing primer with good penetration properties on mineral substrates, in preparation for the application of Starcoat PMMA waterproofing or surfacing products.

Depending on the substrate (porosity, roughness and penetration power), two consecutive coats may need to be applied. The first coat must have hardened fully before any second coat is applied.

Material

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

Properties and advantages

- Easy and fast application.
- Good binding properties for residual dust control.
- Stabilises the surface and fills pores, pinholes and cracks.
- Hydrolysis-and alkali-resistant.
- Penetrates and stabilises the surface.

Areas of application

Starcoat PMMA LV Primer is used as a primer on:

- High compaction concrete and screed flooring.
- Substrates with increased porosity, pinholes and pores or a dusting surface.
- A first coating to a test area is recommended.

Packaging

Summer		Winter	
5.00kg	Starcoat PMMA LV Primer	5.00kg	Starcoat PMMA LV 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 LV Primer	10.00kg	Starcoat PMMA LV 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 LV Primer	25.00kg	Starcoat PMMA LV 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 LV Primer is available in:

- White.
- Unpigmented.

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 LV 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 ≤90%.
The surface to be coated must be dry. It must be protected from moisture until the coating has hardened.
The surface must be protected from moisture until the coating has hardened.
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 V 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 LV Primer	-5	+3	5	10	15	20	25	30	35	40	45	50
	-	6%	6%	4%	3%	3%	2%	2%	2%	1%	1%	1%

Consumption rates

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

Depending on the ambient, surface and application conditions, other product consumption rates may be necessary to achieve the required thickness.

Technical Data

Density	1.00g/cm^3	
Viscosity	at 23°C	100mPa*s
	at 5°C	200mPa*s

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 LV 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 4 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). The entire surface must be coated with a film of primer before it can be overcoated and a second application of Starcoat PMMA LV Primer may be required. **Note: If too little product is applied, curing problems may arise due to interrupted polymerisation.**
Cleaning	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.
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.