

Product Data Sheet

Starcoat PMMA Clear Sealer

Starcoat PMMA Clear Sealer is a clear, colourless and durable wearing layer in Axter Starcoat PMMA systems. It is designed specifically as a finish on top of coloured sand.

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, clear PMMA-based (polymethyl-methacrylate) sealing resin.

Properties and advantages

- Transparent
- Abrasion-resistant
- Permanently weather-resistant (UV, hydrolysis- and alkali-resistant)
- Easy and fast application
- Fast-curing
- Solvent-free

Areas of Application

Starcoat PMMA Clear Sealer is used as a finish on coloured sand toppings.

Note: it is not suitable to receive toppings and it is not recommended for sealing surfaces that are both smooth and light.

Packaging

Summer		Winter	
10.00 kg	Starcoat PMMA Clear Sealer	10.00 kg	Starcoat PMMA Clear Sealer
0.20 kg	Starcoat PMMA Catalyst (2 x 0.1 kg)	0.40 kg	Starcoat PMMA Catalyst (4 x 0.1 kg)
10.20 kg		10.40kg	

Colours

Starcoat PMMA Clear Sealer is 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 to ensure 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 Clear Sealer	-5 to +35	+3 to + 40*	+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 and ice-free. The surface must be protected from moisture until the coating has hardened.

Reaction times and required amounts of catalyst

	Starcoat PMMA Clear Sealer (at 20°C, 2% Starcoat PMMA catalyst)
Pot life	approx. 15 minutes
Rain-proof after	approx. 45 minutes
Can be walked on / overcoated after	approx. 60 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 Clear Sealer	-	-	4	4	4	2	2	2	2	1.5	1.5	-	-	

Consumption rates

Substrate – smooth	Consumption 0.60kg/m ²
Topped areas (depending on particle size)	Consumption 0.60 – 0.80kg/m ²

Technical Data

Density	0.97 g/cm ³
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Application

Application equipment/tools	For mixing product:	Twin paddle stirrer
	For applying the product:	Rubber blade, hard (for applying finish to topped surfaces) Finishing roller (lambswool roller, minimal shedding)
Substrate preparation	Apply the finish to the topped self-levelling mortar. The area must be hard (ready to be overcoated) and any loose topping must have been vacuumed off.	
Mixing	First stir the tub contents thoroughly, then add the Starcoat PMMA catalyst while stirring the resin at the slow-speed setting and mix for 2 minutes. Ensure the product on the base and sides of the container is well 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

Finish for topped surfaces: Use a hard rubber blade to apply a first coat of finish and smooth over with a finish roller if required (depending on particle size of topping approx. 0.60 to 0.80 kg/m²).

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 Cleaner 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 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.