

Product Data Sheet

STARCOAT PMMA W PRIMER

Starcoat PMMA W Primer is part of the Starcoat PMMA liquid waterproofing system. It is a fast-curing primer for damp mineral substrates in preparation for the application of Starcoat PMMA waterproofing or surfacing products.

Material

3-component, fast-reactive / fast-curing PMMA-based (polymethyl-methacrylate) resin primer with a special filler mix.

Properties and advantages

- Easy application and fast curing
- Can be used on damp mineral substrates
- Resistant to rising damp
- Acts as a moisture barrier
- Hydrolysis-and alkali-resistant
- Tested in accordance with ZTV-ING Part 7 in compliance with the technical test specifications TP/BEL-EP and technical delivery specifications TL/BELEP.
- Tested in accordance with TP/BEL-EP for application to new, seven day-old concrete.

Areas of Application

Starcoat PMMA W Primer is used as a primer on damp mineral substrates in preparation for the subsequent application of Starcoat PMMA waterproofing/surfacing products. It acts as a reliable capillary barrier against rising damp and where there is increased residual moisture.

Packaging

18.60 kg	Starcoat PMMA W Primer resin (a)
10.00 kg	Starcoat PMMA W Primer additive (b)
0.30 kg	Starcoat PMMA Catalyst (3 x 0.1 kg)
28.90 kg	

Colours

Starcoat PMMA W Primer (a) is unpigmented. Starcoat PMMA W Primer (b) is grey.

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 W Primer	+5 to +30	+5 to + 35*	+5 to +30

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

Humidity and moisture

The relative humidity must be ≤ 90 %.

The surface to be coated can be damp but there must be no standing water. It must be protected from moisture until the coating has hardened. Note: fresh, seven day-old concrete must not be coated. Otherwise all cementitious substrates with raised residual moisture can be coated provided that the substrate is properly prepared. Please refer to the appropriate application guide for information about correct surface preparation.

Reaction times and required amounts of catalyst

	Starcoat PMMA W Primer (at 20°C, 1% Starcoat PMMA Catalyst to total mix)
Pot life	approx. 7 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) Note: the specified amount of Catalyst to be added is based on the total quantity of Starcoat PMMA W Primer (resin a + additive b = 28.60 kg).					
	+1	5	10	15	20	25
Starcoat PMMA W Primer	3.3%	6%	1.5%	1.2%	1%	0.7%
	944 g	572 g	429 g	343 g	286 g	200 g

Consumption rates

Substrate	Consumption
Smooth (per coat)	0.50 – 0.70 kg/m ²
Fine-sandy (per coat)	0.50 – 1.20 kg/m ²

Technical Data

Density

Starcoat PMMA W Primer (a)	1.00 g/m ³
Starcoat PMMA W Primer (b)	3.00 g/m ³
Starcoat PMMA W Primer mixture	1.50 g/m ³
Viscosity of mixture (at 23°C)	2000 – 4000 mPas

Application

Application equipment/tools	For mixing product:	Twin paddle stirrer
	For applying the product:	Rubber squeegee Lambswool roller Brush or broom Brush (only for areas not accessible with roller)

Substrate preparation

The Starcoat PMMA W Primer must only be applied to a prepared substrate. Abrading the surface is not recommended. Recommended substrate pre-treatment is the shot-blasting process or bush-hammering (e.g. FLEX bush hammer LST 803VR). Starcoat PMMA W Primer can be applied to all damp, even wet, mineral substrates. There is no restriction on residual moisture, however there must not be any standing water on the surface. If necessary excess water should be removed with a rubber squeegee. Starcoat PMMA W Primer contains a special filler mix that ensures excellent adhesion to the substrate in damp conditions.

Refer to the appropriate application guide for information about correct surface preparation.

Mixing

First stir the resin (component a) thoroughly. Then add the additive (component b) to the resin while stirring and continue to stir for at least 5 minutes until the mixture is smooth. Add the Starcoat PMMA Catalyst while stirring at the slow-speed setting and mix for 2 minutes. Ensure that 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 approx. 3 minutes as the Starcoat PMMA Catalyst will take longer to dissolve.

Application

Use the rubber squeegee to apply an even coat of Starcoat PMMA W Primer, then work the product into the surface well using a brush. Make sure the entire area is coated in this way. It is essential that the product is worked well into the surface to ensure good adhesion to the substrate. As the pot life is short, careful preparation before each operation is recommended.

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 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.