Technical Data Sheet

Starcoat PMMA Roller Applied Surfacing

Starcoat PMMA Roller Applied Surfacing is part of the Starcoat PMMA cold applied liquid waterproofing system and is used as a coating for application to bituminous substrates

Developed specifically as a robust, heavy-duty surfacing, Starcoat PMMA Roller Applied Surfacing has excellent abrasion-resistance and non-skid properties and can be applied to asphalt substrates without a primer.

It is used as a prime surfacer, a topping layer and final course on external surfaces such as roads and amenity areas taking pedestrian and vehicular traffic and on mastic flooring incorporating toppings. The surface can be of any colour and this coating can be used to create patterns, car park or road markings and traffic guidance.

Material

2-component, fast-reactive, flexible, pigmented and filled PMMA-based (polymethyl-methacrylate) coating.

Properties and advantages

- Maximum abrasion resistance
- Maximum anti-skid properties
- Permanently weather resistant (UV-, hydrolysis- and alkali-resistant)
- Fast-curing

- Easy, fast application
- Variable roughness
- Solvent-free
- Available in any RAL colour
- Pattern and colour design possible

Areas of application

- Coloured road markings
- Parking areas, forecourts, outdoor plazas and amenity areas
- Footpaths and cycle paths
- Courtyard, school yards, town and market squares
- Pedestrian guidance; restricted zone markings
- Repair and reprofiling of road ironwork and street furniture, e.g. manholes, gullies, pavement failures, pot holes, etc.

Packaging

Summer		Winter	
15.00 kg	Starcoat PMMA Roller Applied Surfacing	15.00 kg	Starcoat PMMA Roller Applied Surfacing
0.20 kg	Starcoat PMMA Catalyst (2 x 0.1 kg)	0.40 kg	Starcoat PMMA Catalyst (4 x 0.1 kg)
15.20 kg		**15.40 kg**	

Colours

Starcoat PMMA Roller Applied Surfacing is available in the following standard colour:

RAL 7043 Traffic Grey
Other RAL colours are available on request.

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 Roller applied surfacing	-10 to +35	-5 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. It must be protected from moisture until the coating has hardened.

Reaction times and required amounts of catalyst

	Starcoat PMMA Roller Applied Surfacing (at 20°C)
Pot life	approx. 12 minutes
Rain-proof after	approx. 30 minutes
Can be walked on / overcoated after	approx. 45 minutes
Curing time	approx. 2 hours

Higher temperatures or greater proportions of Starcoat PMMA Roller Applied Surfacing will reduce reaction times, while lower temperatures and smaller proportions of the product will increase reaction times.

The following table indicates the recommended amount of Starcoat PMMA Roller Applied Surfacing required to adjust the curing reaction to the temperature.

Product	Substrate temperature in °C / required amounts of Starcoat PMMA Catalyst in % (guide)											
Starcoat PMMA Roller Applied Surfacing	-10	-5	+3	5	10	15	20	25	30	35	40	45
	-	3%	3%	2%	2%	1.5%	1.5%	1.5%	1%	1%	1%	-

Consumption rates

Substrate	Consumption
Smoothing over or surfacing of uneven areas following substrate pre-treatment such as fine milling, bush-hammering or shot-blasting. Depends on surface condition (evenness, roughness, texture, porosity)	0.8 – 2.2 kg/m²
Receiving mineral toppings	1.2 – 1.8 kg/m²
Smooth, light and medium duty	0.8 – 1.2 kg/m²
Sealer for top surfaces as part of a Starcoat PMMA system or on mastic asphalt, particle size 0.30 to 0.90 mm	0.6 – 0.9 kg/m²

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Density	1.60g/m^3

Application

Application equipment/tools	For mixing product:	Twin paddle stirrer
	For applying the product:	Aluminium blade approx. 60cm or Smoothing trowel
	Surface treatment (optional) with:	Lambswool roller
Substrate preparation	The Starcoat PMMA Roller Applied Surfacing can either be applied to the hardened Starcoat PMMA Primer or to the hardened Starcoat PMMA Self-levelling Mortar. Priming is not required on asphalt surfaces.	
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. The Roller Applied Surfacing should then be re-potted ideally and stirred again thoroughly.	
	At product temperatures <10°C the product should be stirred for 4 minutes as the Starcoat PMMA Catalyst will take longer to dissolve.	
Application	Using a smoothing trowel, spread the mixture evenly and smooth it, using the particle size as a guide to layer thickness. Go over the area with a lambswool roller to achieve the desired finish.	
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.