

Technical Data Sheet

Starcoat PMMA Vehicular Coat

Starcoat PMMA Vehicular Coat is a textured coating used as a wearing layer for the Starcoat PMMA cold applied liquid waterproofing system.

It is a non-skid and abrasion-resistant coating developed specifically for use on areas subject to heavy vehicular traffic, ramps for example. The coating can be coloured and can also be used to create car park markings and surface patterns.

Material

2-component, fast-reactive, flexible, pigmented and filled PMMA-based (polymethyl-methacrylate) surfacer with a particle size that acts as a guide to layer thickness.

Properties and advantages

- Maximum abrasion resistance
- Maximum slip resistance
- 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

Starcoat PMMA Vehicular Coat is used as a wearing layer in the Starcoat PMMA liquid waterproofing/surfacing system. It is particularly suitable for areas that are subject to very heavy or high frequency traffic, for example the ramps in multi-storey car parks.

Packaging

Summer		Winter	
15.00 kg	Starcoat PMMA Vehicular Coat	15.00 kg	Starcoat PMMA Vehicular Coat
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 Vehicular Traffic 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 Vehicular Coat	-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 $\leq 90\%$.

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 Vehicular Coat (at 20°C)
Pot life	approx. 12 minutes
Rain-proof after	approx. 30 minutes
Can be walked on or over-coated after	approx. 45 minutes
Curing time	approx. 2 hours

Higher temperatures or greater proportions of Starcoat PMMA Vehicular Coat will reduce reaction times, while lower temperatures and smaller proportions of Starcoat Vehicular Coat will increase reaction times.

The following table indicates the recommended amount of Starcoat PMMA Vehicular Coat required to adjust the curing reaction to the temperature.

Product	Substrate temperature in °C / required amounts of Starcoat PMMA Catalyst in % (guide)												
Starcoat PMMA Vehicular Coat	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
	-	4%	4%	4%	4%	3%	3%	2%	2%	1%	1%	-	-

Consumption rates

Substrate	Consumption
Smooth	Approx. 3.50 kg/m ²

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Density 1.85g/m³

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: Diamond grinding wheel

Substrate preparation

The Starcoat PMMA Vehicular Traffic can either be applied to the hardened Starcoat PMMA Primer or to the hardened Starcoat PMMA Self-levelling Mortar.

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 Vehicular Coat should then be re-potted ideally and stirred thoroughly again.

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 the aluminium blade or smoothing trowel, spread the mixture evenly and finish to particle size thickness. The advantage of using the aluminium blade is that this can minimise the otherwise normal trowel marks to create a smooth and even appearance.

Reducing roughness (optional)

The textured Vehicular Coat can be smoothed once it is cured. This should be done preferably with a diamond grinding wheel. This will minimise the roughness height, while still retaining high anti-skid properties even in damp conditions.

Cleaning

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.