

Technical Data Sheet

STARCOAT PMMA & STARCOAT PMMA THIX

Starcoat PMMA 01 / 01 THIX is a low odour, highly flexible, fast-reactive PMMA-based resin in the Starcoat PMMA cold applied liquid roof waterproofing system, BBA approved for use on flat, zero-pitched and pitched roofs with limited access.

Starcoat PMMA 01 / 01 THIX is fast-reactive, two-component liquid waterproofing resin used for the durable and reliable waterproofing of buildings. Due to its low odour properties during application, it is suitable for odour-sensitive areas and its liquid application allows large areas to be waterproofed seamlessly, incorporating complex roof penetrations and upstands.

Key features

- Low odour.
- Fast-curing.
- Highly flexible and crack-bridging even at extreme sub-zero temperatures.
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant).
- Fully bonded to the substrate, therefore no flow paths for water under the membrane.
- Easy and fast application.
- Complex roof penetrations are securely incorporated in the waterproofing system.
- Can be applied to almost all substrates, including variable substrates (when combined with appropriate Starcoat PMMA primers).
- Solvent-free.

Use

Starcoat PMMA 01 / 01 THIX is used with Starcoat PMMA fleece reinforcement, as a highly flexible waterproofing on main roof areas and on details on all types of building, including garages, bridges, balconies, terraces and access galleries.

Product variants

Starcoat PMMA 01 THIX is a variant of Starcoat PMMA 01 and is more viscous / Thixotropic to reduce run-off when applied to sloping and vertical surfaces. It is therefore used primarily for the waterproofing of details.

Packaging

Starcoat PMMA 01 is supplied in 10kg and 25kg drums. Starcoat PMMA 01 THIX is supplied in 10kg drums. Both are supplied with Starcoat PMMA Catalyst.

Summer				Winter			
10.00kg	Starcoat PMMA 01/01 THIX	25.00kg	Starcoat PMMA 01/01 THIX	10.00kg	Starcoat PMMA 01/01 THIX	25.00kg	Starcoat PMMA 01/01 THIX
0.20kg	Starcoat PMMA Catalyst (2 x 0.1kg)	0.50kg	Starcoat PMMA Catalyst (5 x 0.1 kg)	0.40kg	Starcoat PMMA Catalyst (4 x 0.1kg)	1.00kg	Starcoat PMMA Catalyst (10 x 0.1kg)
10.20 kg		25.50kg		10.40kg		26.00kg	

Colours

Starcoat PMMA 01 / 01 THIX is available in grey as standard: RAL 7047. Other RAL colours are available on request.

Storage

Store products sealed in their original airtight container and in a cool, dry and 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 01 / 01 THIX	-5 to +35	+5 to +50*	+5 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.

The surface must be protected from moisture until the coating has hardened.

Reaction times and required amounts of catalyst

	Starcoat PMMA and PMMA THIX (at 20°C, 2% catalyst)
Pot life	approx. 15 minutes
Rain-proof after	approx. 45 minutes
Can be walked on / overcoated after	approx. 1.5 hours
Curing time	approx. 3 hours

Higher temperatures or greater proportions of catalyst will reduce reaction times, while lower temperatures and smaller proportions of catalyst will increase reaction times.

The following table indicates the recommended amount of catalyst required to adjust the curing reaction to the temperature.

Product	Substrate temperature in °C Required amounts of catalyst in % (guide)												
	-10	-5	+3	5	10	15	20	25	30	35	40	45	50
PMMA 01 & PMMA 01 THIX	-	-	-	4%	4%	4%	2%	2%	2%	2%	1%	1%	1%

Consumption rates

As flexible layer (without fleece) in the Starcoat PMMA system
As reinforced layer (with fleece) in the Starcoat PMMA system
As sole waterproofing with fleece

at least 1.60kg/m²
at least 2.40kg/m²
approx. 3.20kg/m²

Technical data

Starcoat PMMA 01/01 THIX

Density 1.56g/cm³

Product application**Application equipment/tools**

To mix the product: Twin-paddle stirrer.
To apply the product: Rubber squeegee with triangular teeth (6mm high e.g. Polyplan notch size no. 57 E06) Metal spiked roller
For application with fleece: Sheepskin roller

Substrate to be coated

Apply the waterproofing resin to the cured Starcoat PMMA primer or suitably prepared substrate.
Use Starcoat PMMA 01 for waterproofing horizontal areas. Starcoat PMMA 01 THIX is used for vertical surfaces (e.g. upstands on details applied with fleece).

Mixing

First stir the drum contents thoroughly.

Then add the Starcoat PMMA Catalyst while stirring the resin at the slow-speed setting and mix for 2 minutes.

Make sure 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 catalyst will take longer to dissolve.

Application

Waterproofing with embedded fleece:

Apply a generous and even layer of the mixed material to the entire area (at least 1.8 kg/m²), then immediately embed the Starcoat PMMA Fleece and use a sheepskin roller to remove any air bubbles.

Cover the fleece immediately (wet on wet) with a second layer of material up to the required consumption rate. In each case use a sheepskin roller to spread the material over the surface. Fleece overlaps must be at least 5cm wide.

Waterproofing without embedded fleece:

Use the notched rubber squeegee to apply an even layer of the mixed material (at least 1.6kg/m²). Immediately afterwards – while this layer is still liquid – go over the entire area with the spiked roller.

Preparation for subsequent layers None required.

Cleaning

If work is interrupted or when it is completed, clean the tools thoroughly with Starcoat PMMA Cleaning Agent within the pot life of the material (approx. 10 minutes). This can be done with a brush. Do not use the tools again until the Starcoat PMMA Cleaner has evaporated fully. Simply immersing the tools in the Starcoat PMMA Cleaner will not prevent the material from hardening.

For information on safety and risk Please refer to the Safety Data Sheets (SDS) for the products used.

General information

The above information, especially information about application of the products, is based on extensive development work, 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.

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