

# Product Data Sheet

## STARCOAT PMMA COLOURED SEALER (2016)

**Starcoat PMMA Coloured Sealer is used as a wearing layer in Axter Starcoat PMMA systems.**

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.

### Product information

| Product name                                             | Product code | Item weight |
|----------------------------------------------------------|--------------|-------------|
| Starcoat PMMA Coloured Sealer (10kg)<br>(RAL 1015)(2016) | 20007-1015   | 10 kg       |
| Starcoat PMMA Coloured Sealer (10kg)<br>(RAL 7043)(2016) | 20007-7043   | 10 kg       |
| Starcoat PMMA Coloured Sealer (10kg)<br>(RAL 9005)(2016) | 20007-9005   | 10 kg       |
| Starcoat PMMA Coloured Sealer (10kg)<br>(RAL 9016)(2016) | 20007-9016   | 10 kg       |

### Material

2-component, fast-curing, pigmented PMMA-based (polymethyl-methacrylate) sealing resin.

## Properties and advantages

- Available in a variety of RAL colours; further details available from Axter Ltd.
- Can be used in any colour to create desired patterns, for example a tiled look or lettering.
- Various toppings can be applied (such as chips and sand) to create the required slip-resistant properties.
- Abrasion-resistant.
- Permanently weather-resistant (UV-, hydrolysis- and alkali-resistant).
- Chloride-resistant.
- Easy and fast application.
- Fast-curing.
- Solvent-free.

## Areas of Application

Starcoat PMMA Coloured Sealer is used as a finish on most Starcoat PMMA systems. The surfaces of the system can be designed in any colour and pattern. The appropriate slip resistant properties are achieved by using different toppings.

## Packaging

| Summer         |                                    | Winter         |                                    |
|----------------|------------------------------------|----------------|------------------------------------|
| 10.00kg        | Starcoat PMMA Coloured Sealer      | 10.00kg        | Starcoat PMMA Coloured Sealer      |
| 0.20kg         | Starcoat PMMA Catalyst (2 x 0.1kg) | 0.40kg         | Starcoat PMMA Catalyst (4 x 0.1kg) |
| <b>10.20kg</b> |                                    | <b>10.40kg</b> |                                    |

## Colours

Starcoat PMMA Coloured Sealer is available in the following standard colours:

RAL 7043, RAL 9005, RAL 9016, RAL 1015.

For production reasons there may be some colour variation between individual batches and the available RAL colour charts. We therefore recommend using products from the same batch for any one project.

## 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 Coloured 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 Coloured Sealer (at 20°C, 2% Starcoat PMMA catalyst) |
|-------------------------------------|--------------------------------------------------------------------|
| Pot life                            | approx. 15 minutes                                                 |
| Rainproof 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) |    |    |    |    |    |    |    |    |      |      |    |    |
|---------------------------------|---------------------------------------------------------------------------------------|----|----|----|----|----|----|----|----|------|------|----|----|
| % Starcoat PMMA Coloured Sealer | -10                                                                                   | -5 | +3 | 5  | 10 | 15 | 20 | 25 | 30 | 35   | 40   | 45 | 50 |
|                                 | -                                                                                     | -  | 4% | 4% | 4% | 2% | 2% | 2% | 2% | 1.5% | 1.5% | -  | -  |

**Consumption rates**

Substrate – smooth

Consumption 0.60kg/m<sup>2</sup>

Topped areas

(depending on particle size)

Consumption 0.60 – 0.80kg/m<sup>2</sup>

**Technical data**

Density

1.04 to 1.20g/cm<sup>3</sup>

The density will vary with the colour.

**Application****Application equipment/tools**

For mixing product:

Twin paddle stirrer

For applying the product:

Finishing roller (sheepskin roller, minimal shedding)

Rubber blade, hard (for applying finish to topped surfaces)

**Substrate preparation**

The finish can be applied either to the hardened Starcoat PMMA primer or the PMMA self-levelling mortar, as required.

**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. Make sure 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 4 minutes as the Starcoat PMMA Catalyst will take longer to dissolve.

**Application**

Use the finish roller to apply an even coat of the mixed material (approx. 0.6kg/m<sup>2</sup>). Avoid fluctuating layer thicknesses.

**Finish design options**

Increased slip resistant properties:

Top the freshly applied, still liquid finish with dry quartz sand (e.g. Starcoat Quartz Aggregate). Particle sizes of between 0.7 and 1.2mm can be used, depending on the desired roughness. Vacuum off the loose sand once the finish has hardened and then apply a final coat of finish with a sheepskin roller to cover the entire area. For an enhanced appearance the first coat of finish can also be applied using a hard rubber blade and smoothed over with the finish roller depending on the particle size of the topping (approx. 0.60 – 0.80kg/m<sup>2</sup>).

Finish design using Starcoat PMMA Decorative Chips:

Use a hopper gun to apply Starcoat PMMA Decorative Chips to the freshly applied finish while it is still wet. A maximum of 50g/m<sup>2</sup> can be applied, depending on the look to be achieved. There should be no excess Chips at any point (surface completely covered with Chips). This could result in reaction problems.

**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 Starcoat PMMA Cleaner will not prevent the material from hardening.

**Safety and risks**

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 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.

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