

Topaz Silk Emulsion

Product characteristics

Description

Topaz Silk Emulsion is a best-in-class high quality acrylic co-polymer based topcoat. Engineered by the latest emulsion technology, Topaz Silk Emulsion dries to a smooth luxurious silk finish giving surfaces outstanding durability against harsh weather conditions. With excellent opacity, washability, minimum dirt pick-up and unique colour retention properties.

Recommended use

Ideal as interior and exterior topcoat for walls, ceilings and partitions where a luxurious smooth silk finish is required.

Features

- Superior opacity.
- Excellent whiteness.
- Outstanding smoothness.
- Excellent washability.

Product safety

Flash point 100°C [212°F]

VOC content

Legislation	Value
EU	19 g/L [0.16 lb/US gal]
US (coatings)	37 g/L [0.31 lb/US gal]
US (regulatory)	95 g/L [0.79 lb/US gal]

VOC values may vary with shade, please consult the Safety Data Sheet, section 9.

Handling

Handle with care. Before and during use, observe safety labels on packaging and paint containers and follow all local and national safety regulations. Always consult Hempel's Safety Data Sheet for this product along with the Product Data Sheet.

For professional use only.

Product data

Product code

589ME

Standard shade* / code

White 10000 **

Wide range of colours is available via Hempel's tinting system.

Gloss

Silk

Volume solids

42 ± 2%

Specific gravity

1.4 kg/L [11 lb/US gal]

Reference dry film thickness

30 micron [1.2 mils]

* Wide range of colours are available via Hempel's Decortint system.

** Colour stability may be affected by exposure to chemicals, high temperatures or inadequate ventilation.

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Surface preparation

Cleanliness

- The surface must be dry and clean prior to application.

New build:

- Concrete must cure completely; for 28 days minimum.
- Moisture content in the surface must be below 4%.
- Minor areas can be sanded/abraded to obtain a uniform dense surface profile

Maintenance and Repair

- Remove dust, loose material and any other contamination.
- Surface imperfections in the substrate must be fixed/filled before paint application.
- Use compatible cementitious repair material for major surface imperfections.
- Apply primer/sealer prior to application of filler.
- Areas with filler to be sealed with primer/sealer.

Consult Hempel's separate Surface Preparation Guidelines for more details.

Application

Thinner

Fresh water

Cleaner

Fresh water

Application method

Tool	Thinning max vol.	Application parameters
Brush/Roller	5%	Not Applicable.
Air spray	15%	Nozzle pressure: 3-4 bar [44 psi] Nozzle orifice: 0.07-0.086"
Airless spray	5%	Nozzle pressure: 150 bar [2200 psi] Nozzle orifice: 0.017-0.021"

Spray data are indicative and subject to adjustment. Pressure is for a material temperature of 20°C [68°F].

Film thickness

	Recommended
Dry film thickness	30 micron [1.2 mils]
Wet film thickness	72 micron [2.9 mils]
Theoretical spreading rate	14 m ² /L [570 sq ft/US gal]

Application conditions

- Surface temperature must be above 5 °C [41°F] during application and curing.
- To avoid condensation, apply on a clean and dry surface with a temperature that is at least 3°C [5°F] above the dew point.
- Provide adequate ventilation during application and drying.

Relative Humidity:

- Relative humidity must be below 75% during drying and curing.

Application remarks

- Stir well before use.
- The practical consumption factor may vary depending on application conditions, equipment and workmanship.
- Two coats of the topcoat may be necessary to obtain full hiding power.

Drying and overcoating

Product compatibility

- Previous coat: Recommended products are: Sealing/ Priming : Topaz WB Primer, Maestro WB Primer, Maestro interior primer.
- Filling : Exterior : Contex Exterior Filler
- Interior : Maestro Mastic Filler, Topaz interior filler or as specified
- Subsequent coat: None.

Drying time

Surface temperature		20°C [68°F]	10°C [50°F]	40°C [104°F]
Surface dry	hours	2	3	1
Through dry	hours	4	6	2

Determined for dry film thickness 30 micron [1.2 mils] at standard conditions, see Hempel's Explanatory Notes for details. Any masking tape used during paint application should be removed while the paint is still in the wet condition.

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Overcoating

Hempel's specification supersedes any guidelines indicated in the overcoating table

Quality name	10°C [50°F]		20°C [68°F]		40°C [104°F]	
	Atmospheric mild					
Topaz Silk Emulsion	Min	8 h	4 h	4 h	2 h	2 h
	Max	Ext*	Ext*	Ext*	Ext*	Ext*

Ext*: Depending on the actual exposure conditions, the coated surface is overcoatable for an extended period of time. Contact your local Hempel representative for advice.

Drying conditions

- To obtain the drying time stated, it is important to maintain sufficient ventilation during application, drying and curing.

Storage

Shelf life

Ambient temperature	25°C [77°F]
Product	24 months

Shelf life from date of production, when stored in original, unopened containers. Thereafter, the product quality must be re-inspected. Storage at elevated temperatures may reduce shelf life. For advice, please consult Hempel.

Storage conditions

- Temperature must not go below 0°C [32°F] during transport and storage.

Carbon Footprint

Dry film thickness	1 µm	1 mil
GWP (Global Warming Potential)	7.3 g CO ₂ e/m ²	0.038 lb CO ₂ e/ft ²

The carbon footprint is for 1 square meter / square foot of surface area with a dry film thickness of 1 micron / mil.

The scope includes raw materials, in-bound transport to the Hempel factory, Hempel manufacturing processes, and any Volatile Organic Compounds emitted during and after the application of the product.

It is calculated based on the standard shade defined in this PDS. Values may vary with shade.

Additional Certifications and Standards

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Additional documents

Additional information is available at the Hempel website <https://www.hempel.com/service-and-support/technical-guidelines> or at your local Hempel website:

- Explanatory Notes for Product Data Sheet.
- Application methods.

Scrub resistance, tested according to ASTM D2486 & SASO 470 & SASO 2061

Early water resistance, tested according to ASTM D1735

Crack bridging ability, tested according to ASTM C836 & ASTM 1305

Flexibility, tested according to ASTM D522-93A

Dry film thickness, tested according to BS EN ISO2808

Pull off Adhesion, tested according to BS EN 4624

Blistering, cracking, flaking, chalking, tested according to BS EN ISO 4628-8

Viscosity, tested according to ASTM D2196

Fineness of grind, tested according to ASTM D1210

This Product Data Sheet ("PDS") relates to the supplied product ("Product") and is subject to updating from time-to-time. Accordingly, the buyer/applicator should have regard to the PDS supplied together with the relevant batch of the Product (and not an earlier version). In addition to the PDS, the buyer/applicator may receive some or all of the following specifications, statements and/or guidelines as listed below or as are available from the Hempel website under 'Products' at www.hempel.com (the "Additional documents"):

No.	Document description	Location/comments
1.	Technical Statement	One-off specific advice provided on request for specific projects
2.	Specification	Only issued for specific projects
3.	PDS	This document
4.	Explanatory Notes to the PDS	Available at www.hempel.com and contain relevant information about the Product testing parameters
5.	Application Instruction	Where available, at www.hempel.com
6.	Generic technical guidelines (e.g. on application and surface preparation)	Where available, at www.hempel.com

In the event of a conflict of information between the PDS and the Additional documents, the order of priority of information shall be in the order as set out above. In such event you should also contact your representative at Hempel for clarification. Furthermore, the buyer/applicator must have full regard to the relevant Safety Data Sheet provided with each Product and which can also be downloaded from www.hempel.com.

Hempel shall not be liable for defects where the application of the Product has not been made fully in accordance with the recommendations and requirements set out in the relevant PDS and the Additional Documents. The information and terms of this disclaimer apply to this PDS, the Additional documents and any other documents supplied by Hempel in respect of the Product. In addition, the Product is supplied and all technical assistance is given subject to Hempel's General Conditions of Sale, Delivery and Service, unless otherwise expressly agreed in writing.