

Topaz SG Enamel

Product characteristics

Description

Topaz SG Enamel is a high quality alkyd topcoat with excellent flow properties and giving a smooth semi-gloss finish. Topaz SG Enamel gives a smooth luxurious semi-gloss finish with outstanding opacity, flexibility and unique colour retention properties.

Recommended use

Ideally suited for interior and exterior door and window frames, furniture, and woodwork in general, and ideal for metal surfaces. Also for internal walls, ceiling, partitions, etc.

Service temperature:

- Maximum, dry exposure only: 120°C [248°F].

Features

- Superior non-yellowing properties.
- Excellent whiteness.
- Outstanding smoothness.
- Excellent flow properties.

Product safety

Flash point 38°C [100°F]

VOC content

Legislation	Value
EU	430 g/L [3.59 lb/US gal]
US (coatings)	430 g/L [3.59 lb/US gal]
US (regulatory)	430 g/L [3.59 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

524ME

Standard shade* / code

White 10000 **

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

Gloss

Semi-gloss

Volume solids

45 ± 2%

Specific gravity

1.2 kg/L [10 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.

Topaz SG Enamel

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%.
- Moisture content of the wood must be below 16%.
- Clean thoroughly by hand or power tool to St 2 (ISO 8501-1) / SP 2 (SSPC). Avoid polishing.

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

Hempel's Thinner 08230

Cleaner

Hempel's Thinner 08230

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: 0.052-0.07"
Airless spray	5%	Nozzle pressure: 150 bar [2200 psi] Nozzle orifice: 0.013-0.017"

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

Film thickness

Specification range	Low	High	Recommended
Dry film thickness	30 micron [1.2 mils]	40 micron [1.6 mils]	30 micron [1.2 mils]
Wet film thickness	66 micron [2.6 mils]	88 micron [3.5 mils]	66 micron [2.6 mils]
Theoretical spreading rate	15 m ² /L [611 sq ft/US gal]	11 m ² /L [448 sq ft/US gal]	15 m ² /L [611 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.

Topaz SG Enamel

Drying and overcoating

Product compatibility

- Previous coat: Recommended products are: Sealing/ Priming:
- On Ferrous metals: Maestro Alkyd primer or as specified
- On Wood: Topaz SB primer, Maestro Alkyd undercoat or as specified
- On Concrete: Topaz WB primer, Maestro WB primer or as specified
- Filling:
- Exterior: Contex Exterior filler
- Interior: Maestro Mastic Filler or Topaz Interior filler or as specified

Drying time

Surface temperature		20°C [68°F]	10°C [50°F]	40°C [104°F]
Surface dry	hours	6	12	3
Through dry	hours	12	24	6

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. The natural tendency of Alkyds to discolour is also reflected in this product. Discoloration can be accelerated by inadequate ventilation, exposure to chemicals, elevated temperatures and low light conditions.

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 SG Enamel	Min	48 h	24 h	12 h
	Max	No max	No max	No max

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.
- The product must be stored in accordance with Safety Data Sheet, label and local regulations. Keep the containers in a dry, shaded, cool, well-ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Carbon Footprint

Dry film thickness	1 µm	1 mil
GWP (Global Warming Potential)	9 g CO ₂ e/m ²	0.047 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.

Topaz SG Enamel

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.

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.