

Contex Polyurethane Gloss Enamel

Product characteristics

Description

Contex Polyurethane Gloss Enamel is a two-component, gloss acrylic polyurethane coating with good durability. It exhibits very good UV resistance with high gloss and colour retention. Its gloss finish provides surfaces with low dirt pick-up and can be used on top of textured paints. It is a long-lasting coating system that provides buildings protection against harsh weather effects and can prolong maintenance for years. It is also recommended as a finishing coat for protection of structural steel in corrosive atmospheric environment, where colour fastness and gloss retention are required.

Recommended use

Ideal as polyurethane topcoat for various exterior and interior surfaces.

Features

- Excellent durability and UV resistance.
- The minimum temperature for curing is -10°C [14°F].
- Glossy with outstanding gloss and colour retention.

Product safety

Flash point 33°C [91°F]

VOC content mixed product

Legislation	Value
EU	446 g/L [3.72 lb/US gal]
US (coatings)	446 g/L [3.72 lb/US gal]
US (regulatory)	446 g/L [3.72 lb/US gal]

VOC values may vary with shade, please consult the Safety Data Sheet, section 9. According to specific legislation, see details in the Explanatory Notes available at Hempel website, hempel.com or at your local Hempel website.

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

552ME

Product components

Base 552M9

Curing Agent 95370

Standard shade* / code

White 10000 **

Gloss

Glossy

Volume solids

51 ± 2%

Specific gravity

1.2 kg/L [10 lb/US gal]

Reference dry film thickness

50 micron [2.0 mils]

Surface preparation

Cleanliness

- The surface must be dry and clean prior to application.
- Remove dust, blast media and loose materials.

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%.

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

* Wide range of colours is available via Hempel's Multi-Tint® system.

** Colour stability may be affected by exposure to harsh chemical and/or high temperatures.

Contex Polyurethane Gloss Enamel

Application

Mixing ratio

Base 552M9 : Curing Agent 95370
(7 : 1 by volume)

Stir well before use.

Thinner

Hempel's Thinner 08080

Cleaner

Hempel's Thinner 08080

Pot life

Product temperature	20°C [68°F]
Pot life	4 hours

Application method

Tool	Thinning max vol.	Application parameters
Airless spray	10%	Nozzle pressure: 150 bar [2200 psi] Nozzle orifice: 0.017-0.019"
Air spray	10%	Nozzle pressure: 4-6 bar [58 psi]
Brush/Roller	5%	Not Applicable.

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	50 micron [2.0 mils]	60 micron [2.4 mils]	50 micron [2.0 mils]
Wet film thickness	100 micron [4 mils]	120 micron [5 mils]	100 micron [4 mils]
Theoretical spreading rate	10 m ² /L [410 sq ft/US gal]	8.5 m ² /L [350 sq ft/US gal]	10 m ² /L [410 sq ft/US gal]

For best performance, avoid excessive film thickness.

Application conditions

- 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.
- Surface temperature must be above 5°C [41°F] during application and curing.

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.

Drying and overcoating

Product compatibility

- Previous coat: Recommended products are:
 - On Ferrous Metal : Hempadur 15553 or as per specification
 - On Concrete : Hempadur Sealer 05990
- Subsequent coat: None.

Drying time

Surface temperature		-10°C [14°F]	0°C [32°F]	20°C [68°F]	40°C [104°F]
Touch dry	hours	2½	1⅓	¾	⅓
Surface dry	min	-	-	60	-
Hard dry	hours	21	12	4½	1½
Through dry	hours	-	-	8	-

Determined for dry film thickness 50 micron [2.0 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.

Contex Polyurethane Gloss Enamel

Overcoating

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

Quality name		-10°C [14°F]	0°C [32°F]	20°C [68°F]	40°C [104°F]
Atmospheric medium					
Contex Polyurethane Gloss Enamel	Min Max	30 h Ext*	18 h Ext	6 h Ext	100 min Ext

Drying conditions

- To obtain the drying time stated, it is important to maintain sufficient ventilation during application, drying and curing.
- Condensation on the freshly applied coating should be avoided.

Overcoating details

- If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.
- The surface must be dry and clean prior to application.

Storage

Shelf life

Ambient temperature	25°C [77°F]
Base	24 months
Curing Agent	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

- Product must be stored according to local legislation, at maximum 40°C [104°F], without direct sunlight and protected from rain and snow.

Carbon Footprint

Dry film thickness	1 µm	1 mil
GWP (Global Warming Potential)	10.7 g CO ₂ e/m ²	0.056 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.

Contex Polyurethane Gloss 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.
- General Application Guidelines

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.