

Contex PU Clear Matt Varnish

Product characteristics

Description

Contex PU Clear Matt Varnish is a highly durable two-component polyurethane varnish with matt finish and excellent weathering and UV resistant properties. It has a low dirt-pick-up, is highly washable and easy to clean.

Recommended use

Contex PU Clear Matt Varnish is ideal as polyurethane varnish for exterior and interior surfaces like walls, ceilings, partitions, etc.

Features

- Excellent weathering properties.
- Excellent UV resistance.
- Low dirt-pickup.
- Extremely washable.

Product safety

Flash point 29°C [85°F]

VOC content mixed product

Legislation	Value
EU	489 g/L [4.08 lb/US gal]
US (coatings)	489 g/L [4.08 lb/US gal]
US (regulatory)	489 g/L [4.08 lb/US gal]

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

059ME

Product components

Base 059M9
Curing Agent 95370

Standard shade / code

Transparent 00000

Gloss

Matt

Volume solids

45 ± 2%

Specific gravity

1 kg/L [8 lb/US gal]

Reference dry film thickness

30 micron [1.2 mils]

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%.

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

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Application

Mixing ratio

Base 059M9 : Curing Agent 95370
(7 : 1 by volume)

Stir well before use.

Thinner

Hempel's Thinner 08080

Pot life

Product temperature	20°C [68°F]
Pot life	12 hours

Application method

Tool	Application parameters
Airless spray	Nozzle pressure: 100 bar [1500 psi] Nozzle orifice: 0.017-0.019"
Brush	Not Applicable.
Roller	Not Applicable.
Air mix spray	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	Recommended
Dry film thickness	30 micron [1.2 mils]
Wet film thickness	67 micron [2.7 mils]
Theoretical spreading rate	15 m ² /L [611 sq ft/US gal]

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.
- Provide adequate ventilation during application and drying.

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: Sealing/ Priming:
- On Ferrous Metal : Hempadur 15553 or as per specification
- On Concrete : Hempadur Sealer 05990
- Subsequent coat: None.

Drying time

Surface temperature		10°C [50°F]	20°C [68°F]	40°C [104°F]
Surface dry	hours	8	4	2
Through dry	hours	16	8	4
Fully cured	days	-	7	-

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.

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				
Contex PU Clear	Min	12 h	8 h	2 h
Matt Varnish	Max	6 d	72 h	36 h

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.

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Overcoating details

- One coat normally recommended.
- 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	12 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

- 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)	9.4 g CO ₂ e/m ²	0.049 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 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.