

Hempasil Nexus X-Tend 27500

Product characteristics

Description

Hempasil Nexus X-tend 27500 is a high solids tie-coat compatible with Hempaguard®/Hempasil and Hempablue topcoats.

Recommended use

Hempasil Nexus X-tend 27500 is a tie-coat for the Hempaguard®/Hempasil/Hempablue topcoats used for FLEX specifications and for touch-up and repair of damaged areas of existing silicone topcoats securing the adhesion between the anticorrosive system and the Hempaguard®/Hempasil/Hempablue topcoats. Minimum curing temperature: 0°C [32°F]. Also recommended as a low temperature tie-coat used in combination with Hempel's Nexus II 27400 for full coat applications of the Hempaguard®/Hempasil/Hempablue topcoats. Minimum curing temperature for this system is 0°C [32°F].

Features

- Silicone repair primer. Tiecoat
- FLEX specifications. Tiecoat
- Can be applied down to 0°C [32°F]
- Resistant to rain exposure

Product safety

Flash point 28°C [82°F]

VOC content

Legislation	Value
EU	251 g/L [2.09 lb/US gal]
US (coatings)	249 g/L [2.08 lb/US gal]
US (regulatory)	249 g/L [2.08 lb/US gal]
China	251 g/L [2.09 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

27500

Standard shade / code

Yellow 23410

Cream 23410

Gloss

Semi-gloss

Volume solids

65 ± 2%

Specific gravity

1.2 kg/L [10 lb/US gal]

Reference dry film thickness

120 micron [4.8 mils]

Surface preparation

New build:

- According to Hempel's Specification.

Maintenance and Repair

- According to Hempel's Specification.

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

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Application

Mixing ratio

Stir well before use. Thinning is not allowed. The potlife for this product is to be understood as time from opening the drum until the product is rendered unfit for application.

Thinner

No thinning

Cleaner

Hempel's Thinner 08080

Pot life

Product temperature	20°C [68°F]	0°C [32°F]	40°C [104°F]
Pot life	60 min	60 min	60 min

Application method

Tool	Thinning max vol.	Application parameters
Airless spray	No thinning	Nozzle pressure: 150 bar [2200 psi] Nozzle orifice: 0.019-0.021"

If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness. 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	100 micron [4.0 mils]	120 micron [4.8 mils]	120 micron [4.8 mils]
Wet film thickness	153 micron [6.1 mils]	183 micron [7.3 mils]	183 micron [7.3 mils]
Theoretical spreading rate	6.5 m ² /L [265 sq ft/US gal]	5.5 m ² /L [224 sq ft/US gal]	5.5 m ² /L [224 sq ft/US gal]

It is vital that the specified minimum dry film thickness is uniformly achieved. 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.
- Temperature of product must be above 15°C [59°F] during application.
- Optimal paint temperature for proper mixing, pumping and spraying is: 20°C [68°F].

Relative Humidity:

- Relative humidity must be in the range 30-85% during curing.
- Relative humidity must be in the range 30-85% during application.

Drying and overcoating

Product compatibility

- Previous coat: According to Hempel's Specification. Recommended products are: Hempel's Nexus X Primer 27100, Hempel's Nexus II 27400
- Subsequent coat: According to Hempel's Specification. Recommended products are: Hempasil, Hempaguard®.

Drying time

Surface temperature		10°C [50°F]	20°C [68°F]	30°C [86°F]
Hard dry	hours	4½	2¼	1½
Fully cured	days	4	2	1½

Determined for dry film thickness 120 micron [4.8 mils] at standard conditions, see Hempel's Explanatory Notes for details.

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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]	30°C [86°F]
Immersion				
Hempasil Nexus X-Tend 27500	Min	20 h	6 h	5 h
	Max	72 h	72 h	72 h
Hempaguard X7 89900	Min	21 h	8 h	6 h
	Max	48 h	48 h	48 h
Hempasil X3+	Min	21 h	8 h	6 h
	Max	48 h	48 h	48 h

Overcoating times are indicative for products of the same generic chemistry. Consult Hempel's specification for more information.

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.

Storage

Shelf life

Ambient temperature	25°C [77°F]
Product	18 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)	11.2 g CO ₂ e/m ²	0.058 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.

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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.
- Surface Preparation.
- Application Instruction for this product.
- General guidelines for application of Hempaguard /Hempasil coating systems.

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.