

# Hempel's Nexus X-Primer

## Product characteristics

### Description

Hempel's Nexus X-Primer 27100 is a two component epoxy based primer with anticorrosive properties.

### Recommended use

Hempel's Nexus X-Primer 27100 is a bridging primer on approved anticorrosive primers for the Hempaguard / Hempasil / Hempablue systems. The product is used as link coat for FLEX specification and also for touch-up and repair of damaged areas of existing silicone topcoats securing the adhesion between the anticorrosive system and Hempasil Nexus X-tend 27500 or Hempasil Nexus X-Line 27700.

### Features

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

## Product safety

**Flash point** 24°C [75°F]

### VOC content mixed product

Legislation	Value
EU	422 g/L [3.52 lb/US gal]
US (coatings)	422 g/L [3.52 lb/US gal]
US (regulatory)	422 g/L [3.52 lb/US gal]
China	422 g/L [3.52 lb/US gal]

According to specific legislation, see details in the Explanatory Notes available at Hempel website, [hempel.com](http://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

27100

### Product components

Base 27109  
Curing Agent 98162

### Standard shade / code

Light brownish red 55900

### Gloss

Flat

### Volume solids

53 ± 2%

### Specific gravity

1.4 kg/L [12 lb/US gal]

### Reference dry film thickness

125 micron [4.9 mils]

## Surface preparation

### Cleanliness

- According to Hempel's Specification.

### 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

Base 27109 : Curing Agent 98162  
(15.7 : 4.3 by volume)

It is recommended to use fixed volumes/can size for multi-component products. Do not open or mix the cans before the paint will be applied. Stir well before use. Thinning is not allowed.

### Thinner

No thinning

### Cleaner

Hempel's Thinner 08450

### Pot life

<b>Product temperature</b>	<b>20°C</b> [68°F]
Pot life	60 min
Pot life (spray)	60 min
Pot life (brush)	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"
Brush	No thinning	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	100 micron [3.9 mils]	125 micron [4.9 mils]	125 micron [4.9 mils]
Wet film thickness	190 micron [7 mils]	230 micron [9 mils]	230 micron [9 mils]
Theoretical spreading rate	5.3 m <sup>2</sup> /L [220 sq ft/US gal]	4.2 m <sup>2</sup> /L [170 sq ft/US gal]	4.2 m <sup>2</sup> /L [170 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 0°C [32°F] during application and curing.
- 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.

### Application remarks

- The practical consumption factor may vary depending on application conditions, equipment and workmanship.
- Checking paint consumption per area can improve the control of film thickness.
- Consult Hempel's Guidelines for application of silicone systems.

## Drying and overcoating

### Product compatibility

- Previous coat: According to Hempel's Specification.
- Subsequent coat: According to Hempel's Specification.

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## Drying time

Surface temperature		20°C [68°F]
Surface dry	min	90
Through dry	hours	6

Determined for dry film thickness 125 micron [4.9 mils] at standard conditions, see Hempel's Explanatory Notes for details.

## Overcoating

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.

## Overcoating details

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

## Other remarks

- Hempel's Specification supersedes any recommendations given in the Product Data Sheets.

## Storage

### Shelf life

Ambient temperature		25°C [77°F]
Base		18 months
Curing Agent		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

- Must be stored under absolutely dry conditions, protect against seeping humidity.
- 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)	9.4 g CO <sub>2</sub> e/m <sup>2</sup>	0.049 lb CO <sub>2</sub> e/ft <sup>2</sup>

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](http://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 <a href="http://www.hempel.com">www.hempel.com</a> and contain relevant information about the Product testing parameters
5.	Application Instruction	Where available, at <a href="http://www.hempel.com">www.hempel.com</a>
6.	Generic technical guidelines (e.g. on application and surface preparation)	Where available, at <a href="http://www.hempel.com">www.hempel.com</a>

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](http://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.