

Hempafloor Prime 420

(Formerly known as Strata Primer SF)

Product characteristics

Description

Hempafloor Prime 420 is a two-component solvent-free high build epoxy primer.

Recommended use

Designed as a primer for all porous concrete surfaces. Help ensure adhesion between Hempafloor topcoats and the substrate.

Certificates / Approvals

- Third-party verified, product-specific Environmental Product Declaration (Type III EPD, ISO 14025, EN 15804)

Features

- Good penetration properties.
- Low odour - can be applied in hygienic & food industries.
- Easy to use and can be applied by brush or roller.
- High mechanical properties.

Product safety

Flash point 132°C [270°F]

VOC content mixed product

Legislation	Value
EU	15 g/L [0.13 lb/US gal]
US (coatings)	15 g/L [0.13 lb/US gal]
US (regulatory)	15 g/L [0.13 lb/US gal]
Canada	15 g/L [0.13 lb/US gal]
China	15 g/L [0.13 lb/US gal]
Hong Kong	15 g/L [0.13 lb/US gal]
Korea	15 g/L [0.13 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

25350

Product components

Base 25359
Curing Agent 95035

Standard shade / code

Transparent 00000

Gloss

Glossy

Volume solids

100 ± 0%

Specific gravity

1.1 kg/L [9 lb/US gal]

Reference dry film thickness

100 micron [4.0 mils]

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Surface preparation

Cleanliness

- Remove dust, loose material and any other contamination.
- The surface must be dry and clean prior to application.
- Consult Hempel's separate Surface Preparation Guidelines for more details.

New build:

- Remove dust, loose material and any other contamination.
- Concrete must cure completely; for 28 days minimum.
- Moisture content in the surface must be below 4%.
- Consult Hempel's separate Surface Preparation Guidelines for more details.

Maintenance and Repair

- Surface imperfections in the substrate must be fixed/filled before paint application.
- Apply primer/sealer prior to application of filler.
- Moisture content in the surface must be below 4%.
- Consult Hempel's separate Surface Preparation Guidelines for more details.

Roughness

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

Application

Mixing ratio

Base 25359 : Curing Agent 95035
(65 : 35 by volume)

The full content of each of the component must be used in the mixing process. Stir the Base (Part A) and continue stirring whilst adding all the contents of the curing agent (Part B) and mix until homogenous. Before mixing the components, stir them individually to homogeneity. Do not open or mix the cans before the paint will be applied. Thinning is not allowed.

Cleaner

Hempel's Tool Cleaner 99610

Pot life

Product temperature	10°C [50°F]	20°C [68°F]	40°C [104°F]
Pot life	90 min	45 min	22 min

Application method

Tool	Application parameters
Brush	Not Applicable.
(Not Listed)	Not Applicable.

Thinning is not allowed.

Film thickness

Specification range	Low	High	Recommended
Dry film thickness	100 micron [4.0 mils]	150 micron [6.0 mils]	100 micron [4.0 mils]
Wet film thickness	100 micron [4.0 mils]	150 micron [6.0 mils]	100 micron [4.0 mils]
Theoretical spreading rate	10 m ² /L [407 sq ft/US gal]	6.6 m ² /L [269 sq ft/US gal]	10 m ² /L [407 sq ft/US gal]

Product may be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate, drying and curing time and overcoating interval. The practical consumption factor may vary depending on application conditions, equipment and workmanship. It is vital that the specified minimum dry film thickness is uniformly achieved.

Application conditions

- Surface temperature must be above 10°C [50°F] during application and curing.
- Temperature of product must be above 15°C [59°F] during application.
- Increased paint temperatures will significantly reduce the pot life.
- For application and curing at other conditions, please contact your local Hempel representative.
- Provide adequate ventilation during application and drying.

Relative Humidity:

- Relative humidity must be below 75% during curing.
- Relative humidity must be below 75% during application.

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Application remarks

- The practical consumption factor may vary depending on application conditions, equipment and workmanship.
- Consult Hempel's Application Guidelines and Instructions for more details.
- The moisture vapor emission rate of concrete subfloor should be tested as per ASTM F1869 or ASTM D4263

Drying and overcoating

Product compatibility

- Previous coat: None or according to Hempel's specification.
- Subsequent coat: According to Hempel's Specification. A selection of approved topcoats is available. Consult Hempel representative for information on approved topcoats.

Drying time

Surface temperature		20°C [68°F]
Surface dry	hours	6
Through dry	hours	24
Dry to walk on	hours	24
Fully cured	days	7

Determined for dry film thickness 100 micron [4.0 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.

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 medium				
Hempafloor Traffic 520	Min	60 h	24 h	7 h
	Max	7½ d	72 h	22 h
Hempafloor Traffic 300	Min	60 h	24 h	7 h
	Max	7½ d	72 h	22 h
Hempafloor Self-level 200	Min	60 h	24 h	7 h
	Max	7½ d	72 h	22 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.
- According to Hempel's Specification.

Overcoating details

- According to Hempel's Specification.
- Consult Hempel for specific details

Other remarks

- The surface must be clean before overcoating
- Epoxy coats have an inherent tendency of chalking in outdoor exposure. This does not affect the performance of the coating.

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.

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Storage conditions

- Temperature must not go below 10°C [50°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)	6.8 g CO ₂ e/m ²	0.036 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.
- Application Instruction for this product.
- 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.