

# Hempafloor Durable 300

(Formerly known as Strata PU Top)

## Product characteristics

### Description

Hempafloor Durable 300 is a two-component, UV resistance polyurethane paint based on aliphatic isocyanate with non-yellowing properties.

### Recommended use

Designed to concrete substrates exterior and interior in areas exposed to heavy abrasion such as car parks, garages and warehouses. The flexible coating surface can withstand the stresses that rubber tyres impart onto the flooring system. Also designed to use as UV-protective topcoat on Hempafloor epoxy-based paints to improve gloss retention. For enhanced slip resistance we recommend to broadcast Hempafloor Antislant in the system.

### Service temperature:

- Please contact Hempel for more information.

### Certificates / Approvals

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

### Features

- Outstanding UV resistance, colour & gloss retention.
- Flexible coating.
- Exceptional resistance to oil, dirt pick up and grease.
- Excellent abrasion and chemical resistance.
- Available in a wide range of colours.

## Product safety

**Flash point** 27°C [80°F]

### VOC content mixed product

Legislation	Value
EU	321 g/L [2.68 lb/US gal]
US (coatings)	321 g/L [2.68 lb/US gal]
US (regulatory)	321 g/L [2.68 lb/US gal]
Canada	321 g/L [2.68 lb/US gal]
China	321 g/L [2.68 lb/US gal]
Hong Kong	321 g/L [2.68 lb/US gal]
Korea	321 g/L [2.68 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. VOC values may vary with shade, please consult the Safety Data Sheet, section 9.

### 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

55160

### Product components

Base 55169  
Curing Agent 95016

### Standard shade\* / code

White 10000 \*\*

Wide range of colours is available via Hempel's tinting system.

### Gloss

Glossy

\* Other shades are available, refer to Hempafloor colour card.

\*\* For certain shades, extra coats may be required to obtain full opacity.

# Hempafloor Durable 300

(Formerly known as Strata PU Top)

## Volume solids

55 ± 2%

## Specific gravity

1.2 kg/L [10 lb/US gal]

## Reference dry film thickness

75 micron [3.0 mils]

## 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:

- Concrete: According to Hempel's Specification.
- Moisture content in the surface must be below 4%.
- Remove dust, loose material and any other contamination.
- Consult Hempel's separate Surface Preparation Guidelines for more details.

### Maintenance and Repair

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

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

## Application

### Mixing ratio

Base 55169 : Curing Agent 95016  
(8.2 : 1.8 by volume)

The full content of each of the component must be used in the mixing process. Before mixing the components, stir them individually to homogeneity. Do not open or mix the cans before the paint will be applied. Do not dilute the components separately - only the mixture.

### Thinner

Hempel's Thinner 08080

### Cleaner

Hempel's Tool Cleaner 99610

### Pot life

Product temperature	10°C [50°F]	20°C [68°F]	40°C [104°F]
Pot life	6 hours	3 hours	¾ hours

### Application method

Tool	Thinning max vol.	Application parameters
Short hair/ Epoxy Roller	5%	Not Applicable.
Brush/Roller		Not Applicable.
(Not Listed)		Not Applicable.

Do not dilute the components separately - only the mixture. Keep thinning at an absolute minimum.

# Hempafloor Durable 300

(Formerly known as Strata PU Top)

## Film thickness

Specification range	Low	High	Recommended
Dry film thickness	75 micron [3.0 mils]	150 micron [6.0 mils]	75 micron [3.0 mils]
Wet film thickness	137 micron [5.5 mils]	274 micron [11 mils]	137 micron [5.5 mils]
Theoretical spreading rate	7.3 m <sup>2</sup> /L [297 sq ft/US gal]	3.6 m <sup>2</sup> /L [147 sq ft/US gal]	7.3 m <sup>2</sup> /L [297 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. Excessive DFT may cause microfoaming and this must be avoided. Checking paint consumption per area can improve the control of film thickness. The practical consumption factor may vary depending on application conditions, equipment and workmanship.

## 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.
- 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.
- Increased paint temperatures will significantly reduce the pot life.
- Provide adequate ventilation during application and drying.
- For application and curing at other conditions, please contact your local Hempel representative.

## Relative Humidity:

- Relative humidity must be below 75% during application.

## Application remarks

- For a skid proof surface, sprinkle Hempel's Anti-Slnt evenly on the surface, immediately upon application of the next-to-last coat while the paint is still wet. Remove surplus before overcoating.
- Consult Hempel's Application Guidelines and Instructions for more details.
- Checking paint consumption per area can improve the control of film thickness.
- Even small traces of water in the mixed paint will reduce the pot life and result in film defects.
- Stir well before use.
- Do not open or mix the cans before the paint will be applied.

## Drying and overcoating

### Product compatibility

- Previous coat: According to Hempel's Specification.

### Drying time

Surface temperature		20°C [68°F]
Surface dry	hours	4
Through dry	hours	24
Dry to walk on	hours	24
Fully cured	days	7

Determined for dry film thickness 75 micron [3.0 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	Atmospheric medium			
		10°C [50°F]	20°C [68°F]	40°C [104°F]
Hempafloor	Min	36 h	24 h	6½ h
Durable 300	Max	No max	No max	No max

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.
- According to Hempel's Specification.

### Overcoating details

- Two coats of the topcoat may be necessary to obtain full hiding power.
- Before overcoating, remove any exudation present on the surface.
- Consult Hempel for specific details

### Other remarks

- The surface must be clean before overcoating.

# Hempafloor Durable 300

(Formerly known as Strata PU Top)

## 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

- 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)	10.2 g CO <sub>2</sub> e/m <sup>2</sup>	0.053 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.

## 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
- Application Instruction for this product.

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.