

# Hempafloor Self-level 500

(Formerly known as Strata Epoxy SL 5000)

## Product characteristics

### Description

Hempafloor Self-level 500 is a self-smoothing, solvent-free three-component epoxy floor coating system for a wide range of purpose.

### Recommended use

Designed to protect concrete substrates where a seamless flooring surfaces combined with excellent mechanical properties is essential. Ideal to a wide range of floors in warehouses, factories, laboratories, kitchens, food processing industry and hygienic requirement applications, etc. Can be applied up to 5 mm DFT.

### Service temperature:

- Please contact Hempel for more information.

### Features

- Self-smoothing, seamless surface.
- From 2 to 5 mm DFT.
- Excellent chemical, abrasion and impact resistance.
- Available in a wide range of colours.

## Product safety

**Flash point** 127°C [261°F]

### VOC content mixed product

Legislation	Value
EU	27 g/L [0.23 lb/US gal]
US (coatings)	27 g/L [0.23 lb/US gal]
US (regulatory)	27 g/L [0.23 lb/US gal]
Canada	27 g/L [0.23 lb/US gal]
China	27 g/L [0.23 lb/US gal]
Hong Kong	27 g/L [0.23 lb/US gal]
Korea	27 g/L [0.23 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

3583A

### Product components

Base 35836  
Curing Agent 97814  
Silica Aggregate 679ME

### Standard shade\* / code

White 0001S \*\*

### Gloss

High-gloss

### Volume solids

99 ± 2%

### Specific gravity

1.8 kg/L [15 lb/US gal]

### Reference dry film thickness

5000 micron [200 mils]

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

\*\* The natural tendency of epoxies to chalk and discolour is also reflected in this product.

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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:

- Concrete: According to Hempel's Specification.
- Concrete must cure completely; for 28 days minimum.
- Concrete moisture content should be checked in accordance with ASTM D4263 or suitable alternative method.
- 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

- 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.

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

## Application

### Mixing ratio

Base 35836 : Curing Agent 97814 : Silica Aggregate 679ME  
(19.6 : 9.9 : 50 by weight)

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. 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	2 hours	1 hours	¼ hours

### Application method

Tool	Application parameters
Rake	Not Applicable.
Spike roller/Notch trowel	Not Applicable.

Thinning is not allowed.

### Film thickness

Specification range	Low	High	Recommended
Dry film thickness	2000 micron [79 mils]	5000 micron [200 mils]	5000 micron [200 mils]
Wet film thickness	2000 micron [80 mils]	5055 micron [200 mils]	5055 micron [200 mils]
Theoretical spreading rate	0.5 m <sup>2</sup> /L [20 sq ft/US gal]	0.2 m <sup>2</sup> /L [8.1 sq ft/US gal]	0.2 m <sup>2</sup> /L [8.1 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. It is vital that the specified minimum dry film thickness is uniformly achieved. 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.

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

## Application remarks

- Consult Hempel's Application Guidelines and Instructions for more details.
- Theoretical spreading rate: 8.5 kg/m<sup>2</sup> @ 5 mm DFT

## Drying and overcoating

### Product compatibility

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

### Drying time

Surface temperature		20°C [68°F]
Touch dry	hours	12
Surface dry	hours	12
Through dry	hours	24
Dry to walk on	hours	24
Fully cured	days	7

Determined for dry film thickness 5000 micron [200 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

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

- Evaluate the actual condition of the existing coating system before overcoating; adjustment in Hempel's Specification may be needed.
- The surface must be clean before overcoating.
- According to Hempel's Specification.

## Other remarks

- If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.

## Storage

### Shelf life

Ambient temperature	25°C [77°F]
Base	24 months
Curing Agent	24 months
Silica Aggregate	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

- Product must be stored according to local legislation, at maximum 40°C [104°F], without direct sunlight and protected from rain and snow.
- Temperature must not go below 10°C [50°F] during transport and storage.

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## Carbon Footprint

Dry film thickness	1 µm	1 mil
GWP (Global Warming Potential)	9.3 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.

## 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.

## Additional Certifications and Standards

Adhesion Strength tested according to ASTM D4541-09  
 Tensile Strength tested according to ASTM C307-03 (2012)  
 Flexural Strength tested according to ASTM C580-02 (2012)  
 Compressive Strength tested according to ASTM C579-01 (2012)  
 Abrasion Resistance tested according to ASTM D4060-10 Impact  
 Resistance tested according to ASTM D2794  
 Shore D Hardness tested according to ASTM D2240-05 (2010)  
 Chemical resistance tested according to ASTM D1308

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.