

Hempafloor Traffic 300

(Formerly known as Strata Epoxy MT)

Product characteristics

Description

Hempafloor Traffic 300 is a two-component solvent-borne epoxy paint for use in areas of medium traffic.

Recommended use

Hempafloor Traffic 300 is designed to protect concrete floors and walls in areas exposed to medium traffic such as car parks, warehouses, factories and sports stadiums. Ideal to medium duty floors where protection to spillages and medium abrasion is specified.

Service temperature:

- Please contact Hempel for more information.

Features

- High abrasion & chemical resistance.
- High solid content.
- Available in a wide range of colours.
- Durable, low maintenance cost.

Product safety

Flash point 24°C [76°F]

VOC content mixed product

Legislation	Value
EU	210 g/L [1.75 lb/US gal]
US (coatings)	210 g/L [1.75 lb/US gal]
US (regulatory)	210 g/L [1.75 lb/US gal]

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

45520

Product components

Base 45529
Curing Agent 95521

Standard shade* / code

White 10170 **
Off white 10170

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

Gloss

Glossy

Volume solids

77 ± 2%

Specific gravity

1.5 kg/L [12 lb/US gal]

Reference dry film thickness

175 micron [7.0 mils]

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

** Epoxy coatings have an inherent tendency of chalking, fading and discolouring. This does not affect the performance of the coating

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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 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

- 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.

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 45529 : Curing Agent 95521
(7.7 : 2.3 by volume)

Before mixing the components, stir them individually to homogeneity. 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. In general, thinning is not recommended. Do not open or mix the cans before the paint will be applied.

Cleaner

Hempel's Tool Cleaner 99610

Pot life

Product temperature	20°C [68°F]
Pot life	2 hours

Application method

Tool	Application parameters
Brush/Roller	Not Applicable.
Short hair/ Epoxy Roller	Not Applicable.

Film thickness

Specification range	Low	High	Recommended
Dry film thickness	150 micron [6.0 mils]	200 micron [8.0 mils]	175 micron [7.0 mils]
Wet film thickness	194 micron [7.8 mils]	258 micron [10 mils]	226 micron [9.0 mils]
Theoretical spreading rate	5.2 m ² /L [212 sq ft/US gal]	3.9 m ² /L [159 sq ft/US gal]	4.4 m ² /L [179 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. 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.
- 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.

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Application remarks

- Consult Hempel's Application Guidelines and Instructions for more details.

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]
Surface dry	hours	6
Hard dry	hours	24
Through dry	hours	24
Dry to walk on	hours	24
Fully cured	days	7

Determined for dry film thickness 175 micron [7.0 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		20°C [68°F]
Atmospheric medium		
Hempafloor	Min	24 h
Durable 300	Max	72 h
Hempafloor Traffic	Min	24 h
300	Max	72 h

Overcoating times are indicative for products of the same generic chemistry.

Drying conditions

- 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.
- Before overcoating, remove any exudation present on the surface.

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

- 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)	7.2 g CO ₂ e/m ²	0.038 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.

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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

Additional Certifications and Standards

Adhesion Strength [ASTM D4541-09] ==> 2.3 N/mm² (concrete failure)

Tensile Strength [ASTM C307-03 (2012)] ==> 3.27 N/mm²

Flexural Strength [ASTM C580-02 (2012)] ==> 5.5 N/mm²

Compressive Strength [ASTM C579-01 (2012)] ==> 62.6 N/mm²

Abrasion Resistance [ASTM D4060-10] ==> 60 mg/1000 cycles

Impact Resistance [ASTM D2794] ==> 0.35 kg-m

Shore D Hardness [ASTM D2240-05 (2010)] ==> D/74/1

Distilled water (cold), Distilled water (hot), Ethyl Alcohol (50%vol), Alkali solution (5%), Soap solution and Detergent solution [ASTM D1308] ==> No discolouration, change in gloss, blistering, softening, swelling, loss of adhesion or special phenomena was observed.

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.