

Hempel's T Wash

Product characteristics

Description

Hempel's T-Wash 09940 is an etch solution for new galvanised steel based on a formulation developed by British Rail.

Recommended use

As pre-treatment for new galvanised steel.

Product safety

Flash point 23°C [73°F]

VOC content

Legislation	Value
EU	325 g/L [2.71 lb/US gal]
US (coatings)	325 g/L [2.71 lb/US gal]
US (regulatory)	766 g/L [6.39 lb/US gal]
China	325 g/L [2.71 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

09940

Standard shade / code

Green 04300

Volume solids

4 ± 2%

Specific gravity

1 kg/L [8 lb/US gal]

Reference dry film thickness

1 micron [0.0 mils]

Surface preparation

Cleanliness

- Remove oil, grease and other contaminants by suitable detergent cleaning.
- Remove salts, detergents and other contaminants by high pressure fresh water cleaning.

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

Application

Application method

Tool	Application parameters
Brush	Not Applicable.

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Film thickness

Specification range	Low	High	Recommended
Dry film thickness	1 micron [0.0 mils]	1 micron [0.0 mils]	1 micron [0.0 mils]
Wet film thickness	25 micron [1 mils]	25 micron [1 mils]	25 micron [1 mils]
Theoretical spreading rate	44 m ² /L [1800 sq ft/US gal]	44 m ² /L [1800 sq ft/US gal]	44 m ² /L [1800 sq ft/US gal]

Application remarks

- Apply the product evenly by brush or sponge.
- The surface will progressively turn black. This blackening indicates that the product has reacted satisfactorily.
- Blackening will occur only if the surface is completely free from dirt, grease and other contaminants.
- No blackened areas should be cleaned with abrasive paper wetted with an emulsifying agent or white spirit, rinsed with clean freshwater and allowed to dry.
- Re-apply the product.
- Remove surplus by (high pressure) fresh water cleaning.

Drying and overcoating

Drying time

Surface temperature	20°C [68°F]
Surface dry	min 60

Determined for dry film thickness 1 micron [0.0 mils] at standard conditions, see Hempel's Explanatory Notes for details.

Storage

Shelf life

Ambient temperature	25°C [77°F]
Product	60 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.

Carbon Footprint

Dry film thickness	1 µm	1 mil
GWP (Global Warming Potential)	50.3 g CO ₂ e/m ²	0.262 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.

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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.
- 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.