Hempel's Speed-Dry Alkyd 43141

Product characteristics

Description
Hempel's Speed-Dry Alkyd 43141 is a quick-drying anticorrosive single layer or finish coat pigmented with zinc phosphate as anticorrosive inhibiting pigment. Hempel's Speed-Dry Alkyd 43141 is also available in a Micaceous Iron Oxide or aluminium pigmented version.
Complies with EU Directive 2004/42/EC, The Paints Directive on the limitation of volatile organic compounds: subcategory i.

Recommended use
As an anticorrosive single layer coat for steel structures, general steel work and a multitude of applications for heavy and light steel industry, where quick drying properties are required. It is for general use, in exterior and interior steel surfaces. Suitable for protection of steel in mild to medium atmospheric corrosive environments.

Service temperature:
- Maximum, dry exposure only: 120°C [248°F].

Product safety

Flash point 24°C [75°F]

VOC content

Legislation	Value	5% thinning, by volume	Limit value, phase II (2010)[a]
EU	464 g/L [3.87 lb/US gal]	483 g/L [4.03 lb/US gal]	500 g/L [4.17 lb/US gal]
US (coatings)	464 g/L [3.87 lb/US gal]	-	-
US (regulatory)	464 g/L [3.87 lb/US gal]	-	-
China	464 g/L [3.87 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. VOC values may vary with shade, please consult the Safety Data Sheet, section 9. [a]EU Directive 2004/42/CE.

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
43141

Standard shade* / code
Light grey 17770 **

Gloss
Semi-gloss

Volume solids
48 ± 2%

Specific gravity
1.3 kg/L [11 lb/US gal]

Reference dry film thickness
80 micron [3.1 mils]

Aluminium shade / code
Aluminium grey 19001

Gloss
Please consult Hempel's Guideline on aluminium pigmented coatings.

Volume solids
44 ± 2%

Specific gravity
1.2 kg/L [10 lb/US gal]

* Other shades are available, please contact your local Hempel representative.
** The natural tendency of Alkyds to discolour is also reflected in this product. Discoloration can be accelerated by inadequate ventilation, exposure to chemicals, elevated temperatures and low light conditions.

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Reference dry film thickness
80 micron [3.1 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.

New build:
- All damage of shopprimer and contamination from storage and fabrication should be thoroughly mechanically/chemically cleaned prior to final painting.
- Abrasive blasting to min. Sa 2½ (ISO 8501-1) / SP 10 (SSPC).
- Remove dust, blast media and loose materials.

Maintenance and Repair
- Spot abrasive blasting to min. PSa 2 (ISO 8501-2) / SP 6 (SSPC).
- Minor areas can be cleaned by power tool to St 3 provided the surface is roughened and not polished.
- Remove dust, blast media and loose materials.

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

Application

Mixing ratio
Stir well before use. Viscosity may increase during storage.

Thinner
Hempel's Thinner 08080

Cleaner
Hempel's Thinner 08080

Application method

Tool	Thinning max vol.	Application parameters
Airless spray	5%	Nozzle pressure: 200 bar [2900 psi] Nozzle orifice: 0.013-0.019"
Brush/Roller	5%	Not Applicable.

If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness. Spray data are indicative and subject to adjustment. Pressure is for a material temperature of 20°C [68°F].

Film thickness

Specification range	Low	High	Recommended
Dry film thickness	60 micron [2.4 mils]	120 micron [4.7 mils]	80 micron [3.1 mils]
Wet film thickness	125 micron [5 mils]	250 micron [10 mils]	170 micron [7 mils]
Theoretical spreading rate	8 m²/L [330 sq ft/US gal]	4 m²/L [160 sq ft/US gal]	6 m²/L [240 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. For best performance, avoid excessive film thickness.

Application conditions
- Surface temperature must be above 5°C [41°F] during application and curing.
- 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.

Relative Humidity:
- Relative humidity must be below 90% during curing.
- Relative humidity must be below 90% during application.

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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	min	15
Hard dry	min	60

Determined for dry film thickness 80 micron [3.1 mils] at standard conditions, see Hempel's Explanatory Notes for details.

Overcoating

Hempel's specification supersedes any guidelines indicated in the overcoating table

Quality name		**20°C** [68°F]
Atmospheric medium		
Hempel's Speed-Dry Alkyd 43141	Min	60 min
	Max	Ext

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.

Overcoating details

- If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.
- The surface must be clean before overcoating.

Other remarks

- Hempel's Specification supersedes any recommendations given in the Product Data Sheets.

Storage

Shelf life

Ambient temperature	**25°C** [77°F]
Product	36 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)	9.1 g CO_2e/m^2	0.047 lb CO_2e/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.