

# Hempel's Speed-Dry Alkyd 43140

## Product characteristics

### Description

Hempel's Speed-Dry Alkyd 43140 is a very quick-drying anticorrosive primer/finish pigmented with zinc phosphate as anticorrosive inhibiting pigment. Hempel's Speed-Dry Alkyd 43140 is also available in a Micaceous Iron Oxide and aluminium pigmented version as shade 19760.

Complies with EU Directive 2004/42/EC, The Paints Directive on the limitation of volatile organic compounds: subcategory i.

### Recommended use

As a single/double coat anticorrosive primer/finish 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].

### Certificates / Approvals

- Complies with the European Fire Standard EN 13501-1, reaction to fire classification, when used as part of a predefined paint system. B-s1, d0.

### Features

- Very fast drying properties, perfect solution for in shop application
- Excellent overcoatability with itself or similar alkyds, with Hemptane and Hemptadur. Good overcoatability with Hemptalin and Hemptex
- Good results with most means of application including brush
- Good adhesion to steel
- Friendly for both user and environment, does not contain any lead and chromates

## Product safety

**Flash point** 25°C [77°F]

### VOC content

Legislation	Value	5% thinning, by volume	Limit value, phase II (2010) <sup>a</sup>
EU	443 g/L [3.70 lb/US gal]	464 g/L [3.87 lb/US gal]	500 g/L [4.17 lb/US gal]
US (coatings)	443 g/L [3.70 lb/US gal]	-	-
US (regulatory)	443 g/L [3.70 lb/US gal]	-	-
China	443 g/L [3.70 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. <sup>a</sup>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

43140

### Standard shade\* / code

Light grey 11150

### Gloss

Flat

### Volume solids

49 ± 2%

### Specific gravity

1.4 kg/L [12 lb/US gal]

\* Other shades are available, please contact your local Hempel representative.

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## Reference dry film thickness

60 micron [2.4 mils]

## Aluminium shade / code

Aluminium grey 19001

## Gloss

Please consult Hempel's Guideline on aluminium pigmented coatings.

## Volume solids

43 ± 2%

## Specific gravity

1.3 kg/L [11 lb/US gal]

## Reference dry film thickness

60 micron [2.4 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.
- The surface must be dry and clean prior to application.

### 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.

### 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: 0.015-0.021"
Brush	5%	Not Applicable.
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	40 micron [1.6 mils]	120 micron [4.7 mils]	60 micron [2.4 mils]
Wet film thickness	80 micron [3 mils]	250 micron [10 mils]	120 micron [5 mils]
Theoretical spreading rate	12 m²/L [490 sq ft/US gal]	4.1 m²/L [170 sq ft/US gal]	8.2 m²/L [330 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.

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## Relative Humidity:

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

## 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 60 micron [2.4 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		10°C [50°F]	20°C [68°F]	30°C [86°F]
Atmospheric medium				
Hempatex Enamel 56360	Min	30 min	15 min	15 min
	Max	44 h	24 h	18 h
Hempathane HS 55610	Min	60 min	30 min	25 min
	Max	Ext*	Ext	Ext
Hempaquick Enamel	Min	30 min	15 min	15 min
	Max	Ext*	Ext	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]	35°C [95°F]
Product	36 months	24 months

Shelf life from date of production, when stored in original, unopened containers. Thereafter, the product quality must be re-inspected. Always check the best before date or expiry date on the label.

# Hempel's Speed-Dry Alkyd 43140

## Additional documents

Additional information is available at the Hempel website [hempel.com](https://www.hempel.com) or at your local Hempel website:

- Explanatory Notes explaining the fields in this Product Data Sheet.
- Surface Preparation Guidelines.
- Application Guidelines for different 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](https://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="https://www.hempel.com">www.hempel.com</a> and contain relevant information about the Product testing parameters
5.	Application Instruction	Where available, at <a href="https://www.hempel.com">www.hempel.com</a>
6.	Generic technical guidelines (e.g. on application and surface preparation)	Where available, at <a href="https://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](https://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.