

# Hempel's HI-VEE

## Product characteristics

### Description

Hempel's HI-VEE 56540 is a non-hiding, but strongly day-light reflecting acrylic paint with fluorescent pigments which give intense colour impression and high visibility (HI-VEE). It has no effect in darkness, and it needs Hempel's HI-VEE Lacquer 06520 on top in order to improve the light fastness.

### Recommended use

For life-saving equipment and for warning purposes such as protruding or moving objects, etc.

### Service temperature:

- Maximum, dry exposure only: 80°C [176°F].

## Product safety

**Flash point** 38°C [100°F]

### VOC content

Legislation	Value
EU	448 g/L [3.74 lb/US gal]
US (coatings)	448 g/L [3.74 lb/US gal]
US (regulatory)	448 g/L [3.74 lb/US gal]
China	448 g/L [3.74 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

56540

### Standard shade\* / code

Fluorescent orange 50180 \*\*

### Gloss

Semi-gloss

### Volume solids

43 ± 2%

### Specific gravity

1 kg/L [8 lb/US gal]

### Reference dry film thickness

40 micron [1.6 mils]

## Surface preparation

### Cleanliness

- According to Hempel's Specification.

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

## Application

### Mixing ratio

Stir well before use.

### Thinner

Hempel's Thinner 08230

### Cleaner

Hempel's Thinner 08230

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

\*\* Colour stability may be affected by exposure to harsh chemical and/or high temperatures.

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## Application method

Tool	Thinning max vol.	Application parameters
Airless spray	5%	Nozzle pressure: 150 bar [2200 psi] Nozzle orifice: 0.015-0.018"
Air spray	15%	Not Applicable.
Brush	5%	Not Applicable.

To comply with Korean VOC regulation, thinning is limited to max. vol. 1%. 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]	40 micron [1.6 mils]	40 micron [1.6 mils]
Wet film thickness	94 micron [3.7 mils]	94 micron [3.7 mils]	94 micron [3.7 mils]
Theoretical spreading rate	11 m <sup>2</sup> /L [448 sq ft/US gal]	11 m <sup>2</sup> /L [448 sq ft/US gal]	11 m <sup>2</sup> /L [448 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

- 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.

## Application remarks

- Two coats of the topcoat may be necessary to obtain full hiding power.

## Drying and overcoating

### Product compatibility

- Previous coat: According to Hempel's Specification. Recommended products are: Hempatex
- Subsequent coat: Recommended product is: Hempel's Hi-Vee Lacquer 06520

### Drying time

Surface temperature		20°C [68°F]
Touch dry	min	60
Hard dry	min	90

Determined for dry film thickness 40 micron [1.6 mils] at standard conditions, see Hempel's Explanatory Notes for details.

### Drying conditions

- To obtain the drying time stated, it is important to maintain sufficient ventilation during application, drying and curing.
- Condensation on the freshly applied coating should be avoided.

### Overcoating details

- 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	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.

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## Carbon Footprint

Dry film thickness	1 $\mu\text{m}$	1 mil
GWP (Global Warming Potential)	12.5 g CO <sub>2</sub> e/m <sup>2</sup>	0.065 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

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.