

# Hempel's Silicone Acrylic

## Product characteristics

### Description

Hempel's Silicone Acrylic 56940 is a heat resistant acrylic modified polysiloxane paint. It is air drying at ambient temperature.

### Recommended use

For long-term protection of hot pipelines, exhaust pipes, smoke stacks and other hot surfaces up to 200°C/390°F, resists short time exposure up to 300°C/572°F. When heated to above 200°C/390°F for longer periods of time a certain discolouration may occur, which does not affect the protective properties of the product.

### Service temperature:

- Maximum, dry exposure only: 200°C [392°F].
- Aluminium shades: 400°C [752°F].

## Product safety

**Flash point** 25°C [77°F]

### VOC content

Legislation	Value
EU	405 g/L [3.38 lb/US gal]
US (coatings)	404 g/L [3.37 lb/US gal]
US (regulatory)	405 g/L [3.38 lb/US gal]
China	405 g/L [3.38 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.

### 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

56940

### Standard shade / code

Light grey 11150 \*

### Gloss

Semi-flat

### Volume solids

54 ± 2%

### Specific gravity

1.4 kg/L [11 lb/US gal]

### Reference dry film thickness

25 micron [1.0 mils]

### Aluminium shade / code

Aluminium grey 19000 \*\*

### Gloss

Please consult Hempel's Guideline on aluminium pigmented coatings.

### Volume solids

29 ± 2%

### Specific gravity

1.1 kg/L [9 lb/US gal]

### Reference dry film thickness

25 micron [1.0 mils]

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

\*\* Appearance of the aluminium pigmented coats will depend on application method, drying conditions, handling etc. Please see the Guideline on Aluminium pigmented coatings at [hempel.com](http://hempel.com) or at your local Hempel website.

# Hempel's Silicone Acrylic

## 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:

- 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 2½ (ISO 8501-2) / SP 10 (SSPC).
- 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	15%	Nozzle pressure: 125 bar [1800 psi] Nozzle orifice: 0.017"
Air spray	25%	Not Applicable.
Brush	15%	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	25 micron [1.0 mils]	50 micron [2.0 mils]	25 micron [1.0 mils]
Wet film thickness	50 micron [2 mils]	90 micron [3.5 mils]	50 micron [2 mils]
Theoretical spreading rate	22 m <sup>2</sup> /L [900 sq ft/US gal]	11 m <sup>2</sup> /L [450 sq ft/US gal]	22 m <sup>2</sup> /L [900 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.
- Surface temperature must be above 10°C [50°F] during application and curing.

### 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: Hempel's Silicone Zinc 16900, Hempel's Galvosil 15700, Hempel's Silicone Aluminium 56914
- Subsequent coat: None.

### Drying time

Surface temperature	20°C [68°F]	
Touch dry	min	15
Hard dry	min	30

Determined for dry film thickness 25 micron [1.0 mils] at standard conditions, see Hempel's Explanatory Notes for details.

# Hempel's Silicone Acrylic

## 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 dry and clean prior to application.

## 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	24 months	16 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.

### Storage conditions

- Product must be stored according to local legislation, at maximum 40°C [104°F], without direct sunlight and protected from rain and snow.

## Additional documents

Additional information is available at the Hempel website [hempel.com](http://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](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.