

# Hempel's Pro Acrylic

## Product characteristics

### Description

Hempel's Pro Acrylic 55883 is a two-component, isocyanate-free, acrylic finishing coat with good gloss and colour retention. It is resistant to water and spillage of aliphatic hydrocarbons. Minimum curing temperature is 0°C/32°F.

### Recommended use

Hempel's Pro Acrylic is recommended as a finishing coat for protection of structural steel in severely corrosive environment, where light-fastness and gloss retention are required. The product may be specified as a one-coat direct-to-metal system in corrosive environments classified as C2 and C3.

### Service temperature:

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

### Certificates / Approvals

- Meets requirements to Norsok M-501 when used as part of a predefined paint system. Edition 6, System 1.

## Product safety

**Flash point** 32°C [90°F]

### VOC content mixed product

| Legislation     | Value                    |
|-----------------|--------------------------|
| EU              | 362 g/L [3.02 lb/US gal] |
| US (coatings)   | 432 g/L [3.61 lb/US gal] |
| US (regulatory) | 432 g/L [3.61 lb/US gal] |
| China           | 432 g/L [3.61 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

55883

### Product components

Base 55889  
Curing Agent 97883

### Standard shade\* / code

White 10000 \*\*

### Gloss

Glossy

### Volume solids

58 ± 2%

### Specific gravity

1.3 kg/L [11 lb/US gal]

### Reference dry film thickness

50 micron [2.0 mils]

### Aluminium shade\*\*\* / code

Aluminium grey 19000 \*\*\*\*

### Gloss

Please consult Hempel's Guideline on aluminium pigmented coatings.

\* Wide range of colours is available via Hempel's Multi-Tint® system.

\*\* Colour stability may be affected by exposure to chemicals, elevated temperatures, low light conditions and/ or inadequate ventilation.

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

\*\*\*\* 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.

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## Volume solids

52 ± 2%

## Specific gravity

1.1 kg/L [9 lb/US gal]

## Reference dry film thickness

50 micron [2.0 mils]

## Surface preparation

### Cleanliness

- According to Hempel's Specification.

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

## Application

### Mixing ratio

Base 55889 : Curing Agent 97883  
(7 : 1 by volume)

Stir well before use.

### Thinner

Hempel's Thinner 08450

### Cleaner

Hempel's Thinner 08450

### Pot life

| Product temperature | 20°C<br>[68°F] |
|---------------------|----------------|
| Pot life            | 4 hours        |

## Application method

| Tool          | Thinning max vol. | Application parameters                                              |
|---------------|-------------------|---------------------------------------------------------------------|
| Airless spray | 5%                | Nozzle pressure: 150 bar [2200 psi]<br>Nozzle orifice: 0.017-0.019" |

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         | 50 micron<br>[2.0 mils]                    | 120 micron<br>[4.7 mils]                    | 50 micron<br>[2.0 mils]                    |
| Wet film thickness         | 90 micron<br>[3.5 mils]                    | 210 micron<br>[8 mils]                      | 90 micron<br>[3.5 mils]                    |
| Theoretical spreading rate | 12 m <sup>2</sup> /L<br>[490 sq ft/US gal] | 4.8 m <sup>2</sup> /L<br>[200 sq ft/US gal] | 12 m <sup>2</sup> /L<br>[490 sq ft/US gal] |

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 0°C [32°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: Hempadur Mastic 4588W, Hempadur 45141/45143
- Subsequent coat: None.

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## Drying time

| Surface temperature |       | 20°C<br>[68°F] |
|---------------------|-------|----------------|
| Surface dry         | hours | 4½             |
| Hard dry            | hours | 10             |
| Fully cured         | days  | 7              |

Determined for dry film thickness 50 micron [2.0 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         | 0°C<br>[32°F]      |      | 10°C<br>[50°F] | 20°C<br>[68°F] |
|----------------------|--------------------|------|----------------|----------------|
|                      | Atmospheric medium |      |                |                |
| Hempel's Pro Acrylic | Min                | 18 h | 9 h            | 6 h            |
|                      | 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.
- 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<br>[77°F] |
|---------------------|----------------|
| Base                | 36 months      |
| Curing Agent        | 18 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.

### Storage conditions

- The curing agent is sensitive to moisture. Store in a dry place and keep the can tightly closed until use.

## Carbon Footprint

| Dry film thickness             | 1 µm                                    | 1 mil                                      |
|--------------------------------|-----------------------------------------|--------------------------------------------|
| GWP (Global Warming Potential) | 11.4 g CO <sub>2</sub> e/m <sup>2</sup> | 0.059 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.

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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](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.