

Acrylithane HS2

Product characteristics

Description

Acrylithane HS2 Polyurethane is a two component, high performance polyurethane topcoat formulated for use in areas requiring VOC less than 2.8 lbs./gallon. It provides a full gloss, high quality appearance.

Recommended use

Acrylithane HS2 is recommended for use on automobiles, trucks, trailers, bulk tanks, and chemical trailers that require a premium topcoat appearance.

Service temperature:

- Maximum, dry exposure only: 149°C [300°F].

Features

- Uses same catalyst as Ureprime HS2 Primer.
- Excellent gloss and color retention.
- Chemical resistant.
- Low VOC.
- Wide range of colors, including metallic effect.

Product safety

Flash point 95°F [35°C]

VOC content mixed product

Legislation	Value
EU	2.72 lb/US gal [326 g/L]
US (coatings)	2.72 lb/US gal [326 g/L]
US (regulatory)	2.72 lb/US gal [326 g/L]
Canada	2.72 lb/US gal [326 g/L]
China	2.72 lb/US gal [326 g/L]
Hong Kong	2.72 lb/US gal [326 g/L]
Korea	2.72 lb/US gal [326 g/L]

According to EPA Method 24. 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

57010

Product components

Base 57019

Curing agent 97050

Standard shade / code

White 10000 *

White 10000

Wide range of colours is available via Hempel's tinting system.

Gloss

High-gloss

Volume solids

64 ± 2%

Specific gravity

11 lb/US gal [1.3 kg/L]

Reference dry film thickness

2.3 mils [57 micron]

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Surface preparation

Cleanliness

- The surface must be dry and clean prior to application.

New build:

- According to Hempel's Specification.

Maintenance and Repair

- According to Hempel's Specification.

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

Application

Mixing ratio

Base 57019 : Curing agent 97050
(3 : 1 by volume)

Stir well before use.

Thinner

Hempel's Thinner 08320
Hempel's Thinner 08EJB

Cleaner

Hempel's Tool Cleaner 99610

Pot life

Product temperature	68°F [20°C]
Pot life	3 hours

Application method

Tool	Thinning max vol.	Application parameters
Airless spray		2000 psi [Nozzle pressure: 138 bar] Nozzle orifice: 0.011-0.013"
Air spray	15%	Nozzle orifice: 0.11"
Brush		Not Applicable.

Thinning may be necessary in the case of very long spray hoses and/or paint temperatures below 59°F/15°C. Thinning will cause lower film build and longer drying time.

Alternate reducers such as acetone may be used to reduce product without adding VOCs. Spray data are indicative and subject to adjustment. Pressure is for a material temperature of 68°F [20°C].

Film thickness

Specification range	Low	High	Recommended
Dry film thickness	1.5 mils [38 micron]	3.0 mils [76 micron]	2.3 mils [57 micron]
Wet film thickness	2.4 mils [60 micron]	4.8 mils [119 micron]	3.6 mils [90 micron]
Theoretical spreading rate	693 sq ft/US gal [17 m²/L]	342 sq ft/US gal [8.4 m²/L]	448 sq ft/US gal [11 m²/L]

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 5°F [3°C] above the dew point.
- Provide adequate ventilation during application and drying.
- Surface temperature must be above 45°F [7°C] during application and curing.
- Material temperature should be between 15°C [59°F] and 25°C [77°F].

Application remarks

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

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Drying and overcoating

Product compatibility

- Previous coat: According to Hempel's Specification. Recommended products are: Ureprime HS2; Chem-O-Gard Low VOC Primer; Chem-O-Pon Low VOC Epoxy Primer.
- Subsequent coat: None or according to Hempel's specification. Recommended product is: Acrylithane HS2.

Drying time

Surface temperature		68°F [20°C]	118°F [48°C]	149°F [65°C]
Touch dry	min	60	-	-
Surface dry	hours	7	-	-
Hard dry	hours	8	2	1
Dry to handle	hours	8	-	-
Fully cured	days	7	-	-

Determined for dry film thickness 2.3 mils [57 micron] 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.
- If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.

Other remarks

- Overcoating intervals: 4 hours minimum; 2 weeks maximum (68°F/20°C). Minimum can be shortened to 3 hours with 0.5 oz. of 99LJB accelerator per mixed gallon. Beyond 2 weeks, sand or roughen the surface.
- Hempel's Specification supersedes any recommendations given in the Product Data Sheets.

Storage

Shelf life

Ambient temperature	77°F [25°C]
Base	36 months
Curing agent	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.

Storage conditions

- The product must be stored in accordance with Safety Data Sheet, label and local regulations. Keep the containers in a dry, shaded, cool, well-ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Carbon Footprint

Dry film thickness	1 mil	1 µm
GWP (Global Warming Potential)	0.05 lb CO ₂ e/ft ²	9.7 g CO ₂ e/m 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 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 (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.