

# Hempadur MIO 47950

## Product characteristics

### Description

Hempadur Mio 47950 is a two-component polyamide adduct cured, high build epoxy paint which combines a relatively high volume solids content with a short drying time. Has a high load of MIO-pigment.

### Recommended use

As an intermediate or finishing coat in epoxy systems in atmospheric exposure.

### Service temperature:

- Maximum, dry exposure only: 140°C [284°F].

## Product safety

**Flash point** 24°C [75°F]

### VOC content mixed product

Legislation	Value
EU	251 g/L [2.09 lb/US gal]
US (coatings)	251 g/L [2.09 lb/US gal]
US (regulatory)	251 g/L [2.09 lb/US gal]
China	251 g/L [2.09 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

47950

### Product components

Base 47959  
Curing Agent 98140

### Standard shade / code

Dark grey 12130 \*

### Gloss

Semi-gloss

### Volume solids

76 ± 2%

### Specific gravity

1.2 kg/L [10 lb/US gal]

### Reference dry film thickness

125 micron [4.9 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:

- According to Hempel's Specification.

### Maintenance and Repair

- According to Hempel's Specification.

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

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## Application

### Mixing ratio

Base 47959 : Curing Agent 98140  
(5 : 1 by volume)

Stir well before use.

### Thinner

Hempel's Thinner 08450

### Cleaner

Hempel's Tool Cleaner 99610

### Pot life

**Product temperature** **20°C**  
[68°F]

Pot life 60 min

### Application method

Tool	Thinning max vol.	Application parameters
Airless spray	5%	Nozzle pressure: 225 bar [3300 psi] Nozzle orifice: 0.019-0.021"
Brush	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	80 micron [3.1 mils]	150 micron [5.9 mils]	125 micron [4.9 mils]
Wet film thickness	110 micron [4 mils]	200 micron [8 mils]	170 micron [6 mils]
Theoretical spreading rate	10 m <sup>2</sup> /L [410 sq ft/US gal]	5.1 m <sup>2</sup> /L [210 sq ft/US gal]	6.1 m <sup>2</sup> /L [250 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 0°C [32°F] during application and curing.
- Temperature of product must be above 15°C [59°F] during application.
- 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.

## Drying and overcoating

### Product compatibility

- Previous coat: According to Hempel's Specification. Recommended products are: Hempadur ZP 47940,
- Subsequent coat: None or according to Hempel's specification. Recommended products are: Hemplathane

### Drying time

**Surface temperature** **20°C**  
[68°F]

Hard dry min 120

Determined for dry film thickness 125 micron [4.9 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 [32°F]	10°C [50°F]	20°C [68°F]
Atmospheric medium				
Hempadur MIO 47950	Min Max	27 h Ext*	12 h Ext	6 h Ext
Hemplathane HS 55610	Min Max	27 h Ext*	12 h Ext	6 h 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.

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## Overcoating details

- If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.
- The surface must be dry and clean prior to application.

## Other remarks

- Epoxy coats have an inherent tendency of chalking in outdoor exposure. This does not affect the performance of the coating.
- 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]
Base	36 months	24 months
Curing Agent	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.

## 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).

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