

Product characteristics

Description

Hempadur Impact is a self-priming, high-build pure epoxy paint that cures to an abrasion, impact and corrosion resistant coating.

Recommended use Hempadur Impact is recommended as a dedicated heavy duty coating for hatch coamings and cargo holds of bulk carriers.

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

Certificates / Approvals

- Complies with US FDA and EU food regulations for contact with liquid and dry foodstuff. Consult Hempel for details.

Product safety

Flash point 33°C [91°F]

VOC content mixed product

Value
254 g/L [2.12 lb/US gal]

According to specific legislation, see details in the Explanatory Notes available at Hempel website, 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 47800

Product components Base 47809 Curing agent 97800

Standard shade* / code Brownish red 50630 **

Gloss Flat

Volume solids 77 ± 2%

Specific gravity 1.5 kg/L [13 lb/US gal]

Reference dry film thickness 125 micron [4.9 mils]

Aluminium shade / code Grey 11470

Gloss

Please consult Hempel's Guideline on aluminium pigmented coatings.

Volume solids 76 ± 2%

Specific gravity 1.5 kg/L [13 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:

- Abrasive blasting to min. Sa 21/2 (ISO 8501-1) / SP 10 (SSPC).
- Remove dust, blast media and loose materials.

Maintenance and Repair

- Spot abrasive blasting to min. PSa 2 (ISO 8501-2) / SP 6 (SSPC).
- Minor areas may be hand or power tool cleaned instead of abrasive blasting.
- Water jetting to min. Wa 2 (ISO 8501-4).
- Flash rust degree of maximum FR M (ISO 8501-4).
- Remove dust, blast media and loose materials.

Roughness

- Surface profile Medium (G) (ISO 8503-2).

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

Application

Mixing ratio Base 47809 : Curing agent 97800 (4 : 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]	30°C [86°F]
Induction time	10 min	5 min
Pot life	60 min	30 min

Application method

Тооі	Thinning max vol.	Application parameters
Airless spray	5%	Nozzle pressure: 150 bar [2200 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	100 micron	150 micron	125 micron
	[3.9 mils]	[5.9 mils]	[4.9 mils]
Wet film thickness	130 micron	200 micron	170 micron
	[5 mils]	[8 mils]	[6 mils]
Theoretical spreading rate 7.7 m²/L [310 sq ft/US gal]		5.1 m²/L [210 sq ft/US gal]	6.2 m²/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

- Optimal paint temperature for proper mixing, pumping and spraying is: 15-30°C [59-86°F].
- To avoid condensation, apply on a clean and dry surface with a temperature that is at least $3^{\circ}C$ [$5^{\circ}F$] above the dew point.
- Surface temperature must be above 0°C [32°F] during application and curing.
- To facilitate proper application properties at low temperatures it is recommended to allow the thoroughly mixed Base and Curing Agent to prereact before application.



Application remarks

- Product requires heavy duty spray equipment; spray hoses shall be as short as possible.

Drying and overcoating

Product compatibility

- Previous coat: None or according to Hempel's specification.
 Recommended products are: Hempadur Impact 47800, Hempadur 15590
- Subsequent coat: None or according to Hempel's specification.

Drying time

Surface temperature		0°C [32°F]	10°C [50°F]	20°C [68°F]	30°C [86°F]
Surface dry	hours	-	-	21⁄2	-
Hard dry	hours	19	11	5	3
Fully cured	days	30	14	7	31⁄2

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]	30°C [86°F]
Atmospheric medium					
Hempadur Impact	Min Max	24 h 90 d	8 h 60 d	4 h 30 d	3 h 21 d

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.

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.

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 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.