

Hempadur Quick

Product characteristics

Description

Hempadur Quick is a high solids fast drying epoxy coating which cures to a hard coating offering good anticorrosion protection and good resistance to hard and soft cargoes as well as seawater.

Recommended use

Hempadur Quick is recommended as a dedicated heavy duty coating for maintenance of cargo holds of bulk carriers. Hempadur Quick is intended for all year application down to -10C (14F) and for applications where fast recoating is required. Hempadur Quick is not recommended for New Building.

Service temperature:

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

Certificates / Approvals

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

Features

- Good anticorrosion protection
- Good resistance to abrasion from hard and soft cargoes.
- Fast drying.
- Curing down to -10C/14F.

Product safety

Flash point 25°C [77°F]

VOC content mixed product

Legislation	Value
EU	222 g/L [1.85 lb/US gal]
US (coatings)	222 g/L [1.85 lb/US gal]
US (regulatory)	222 g/L [1.85 lb/US gal]
China	222 g/L [1.85 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

47650

Product components

Base 47659
Curing Agent 97065

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]

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Surface preparation

Cleanliness

- Remove oil, grease and other contaminants by suitable detergent cleaning.
- Remove salts, detergents, contaminants and marine growth by high pressure fresh water cleaning.

Maintenance and Repair

- Abrasive blasting to min. Sa 2 (ISO 8501-1) / 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).
- Areas of intact existing coating should be treated either by abrasive sweep blasting or water jetting to give a dense and uniform roughness of the existing coating to ensure adhesion.
- Feather edges to sound surrounding coating.
- 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 47659 : Curing Agent 97065
(4 : 1 by volume)

It is recommended to use fixed volumes/can size for multi-component products. Stir well before use.

Thinner

Hempel's Thinner 08450

Cleaner

Hempel's Tool Cleaner 99610
Hempel's Thinner 08450

Pot life

Product temperature	10°C [50°F]	20°C [68°F]	30°C [86°F]
Pot life	75 min	60 min	45 min

Application method

Tool	Application parameters
Airless spray	Nozzle pressure: 250 bar [3600 psi] Nozzle orifice: 0.017-0.023"

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 [3.9 mils]	200 micron [7.9 mils]	125 micron [4.9 mils]
Wet film thickness	130 micron [5 mils]	250 micron [10 mils]	170 micron [6 mils]
Theoretical spreading rate	7.7 m ² /L [310 sq ft/US gal]	3.8 m ² /L [150 sq ft/US gal]	6.2 m ² /L [250 sq ft/US gal]

For best performance, avoid excessive film thickness.

Application conditions

- Optimal spraying properties are obtained at paint temperatures of 15-30°C [59-86°F]. Beyond these temperatures additional thinning may be necessary.
- 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 [14°F] during application and curing.

Application remarks

- The practical consumption factor may vary depending on application conditions, equipment and workmanship.
- Checking paint consumption per area can improve the control of film thickness.

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Drying and overcoating

Product compatibility

- Previous coat: None or according to Hempel's specification.
- Subsequent coat: According to Hempel's Specification.

Drying time

Surface temperature		-10°C [14°F]	0°C [32°F]	20°C [68°F]	40°C [104°F]
Touch dry	hours	4	2	¾	¾
Hard dry	hours	18	9	2½	¾
Fully cured	days	45	22	5	1

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		-10°C [14°F]	0°C [32°F]	20°C [68°F]	40°C [104°F]
Atmospheric medium					
Hempadur Quick	Min	18 h	9 h	2 h	60 min
	Max	14 d	14 d	14 d	7 d
Atmospheric severe					
Hempadur Quick	Min	18 h	9 h	2 h	60 min
	Max	14 d	14 d	14 d	7 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.
- According to Hempel's Specification.

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]
Base	36 months
Curing Agent	12 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

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

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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.
- Surface Preparation.
- Application Instruction for this product.

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.