

# Hempadur Quattro 17634

## Product characteristics

### Description

Hempadur Quattro 17634 is an epoxy primer which cures to a hard and tough coating with good resistance to seawater and various oils. It holds good resistance to abrasion and has excellent anticorrosive and mechanical properties. It is an all year round primer, ideal for application in newbuilding, in ballast tanks, cargo oil tanks and cargo holds.

### Recommended use

Hempadur Quattro 17634 is recommended as an universal, self-primed, high performance coating for atmospheric or in-water service, including cargo holds, water ballast tanks and cargo oil tanks to be coated according to IMO-PSPC requirements. It is intended for all year application and for in-shop applications where fast recoating and handling is required. It is also recommended for long time corrosion protection of structural steel and concrete in severe corrosive and immersed environments.

The product resists normal ambient temperatures at sea when used in ballast water service (avoid long-term exposure to negative temperature gradients). For resistance to other liquids, please contact Hempel.

### Service temperature

- Maximum, dry exposure only: 120°C [250°F].

### Certificates / Approvals

- EC-type examined as a low flame spread material when used as part of a predefined paint system. Please refer to "Declaration of Conformity" on [www.Hempel.com](http://www.Hempel.com) for further details.
- This product is type approved according to PSPC requirements based on crossover testing over a wide range of shopprimers. Consult Hempel for specific Type Approval Certificates as defined in IMO Resolution MSC.288(87).
- Complies with US FDA and EU food regulations for contact with liquid and dry foodstuff. Consult Hempel for details.

### Features

- Short drying time giving a fast recoating and handling time.
- Cures down to -10°C [14°F].
- Good resistance to crude oil.

## Product safety

**Flash point** 27°C [81°F]

### VOC content mixed product

Legislation	Value
EU	280 g/L [2.34 lb/US gal]
US (coatings)	280 g/L [2.34 lb/US gal]

Calculated according to specific legislation, see details in the Explanatory Notes available at the 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

17634

### Product components

Base 17636  
Curing agent 97334

### Standard shade\* / code

Brownish red 50630 \*\*

### Gloss

Semi-flat

### Volume solids

72 ± 2%

### Specific gravity

1.4 kg/L [12 lb/US gal]

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

\*\* Slight discolouration may occur. This does not affect the performance of the coating.

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## Reference dry film thickness

125 micron [4.9 mils]

## Surface preparation

### Cleanliness

- Remove oil, grease and other contaminants by suitable detergent cleaning (e.g. Hempel's Light Clean 99350).
- Remove salts, detergents and other contaminants by high pressure fresh water cleaning.

### New build:

- Abrasive blasting to min. Sa 2½ (ISO 8501-1) / SP 10 (SSPC).

### Repair:

- Abrasive blasting to min. Sa 2 (ISO 8501-1) / SP 6 (SSPC).
- Water jetting to Wa 2½ (ISO 8501-4).
- Flash rust degree of maximum FR L (ISO 8501-4).

### Roughness

- Surface profile Medium (G) (ISO 8503-2) / Rugotest No. 3 BN10a-b / Rz 60-100 micron [2.4-4 mils].

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

## Application

### Mixing ratio

Base 17636 : Curing agent 97334  
(4 : 1 by volume)

It is recommended to use fixed volumes/can size for multi-component products. Do not dilute the components separately - only the mixture.

### Thinner

Hempel's Thinner 08450

### Cleaner

Hempel's Tool Cleaner 99610

## Pot life

Product temperature	15°C [59°F]	20°C [68°F]	30°C [86°F]
Pot life (spray)	3 hours	2 hours	1 hour
Pot life (brush)	3 hours	2 hours	1 hour

## Application method

Tool	Thinning max vol.	Application parameters
Airless spray	5%	Nozzle pressure: 250 bar [3600 psi] Nozzle orifice: 0.021-0.025"
Brush/Roller	5%	

To minimise dry spray at high temperatures, extra thinning may be necessary. Lower paint temperatures may require extra thinning, which will result in lower film build and slower drying. 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
Dry film thickness	100 micron [3.9 mils]	200 micron [7.9 mils]
Wet film thickness	130 micron [5 mils]	275 micron [11 mils]
Theoretical spreading rate	7.2 m²/L [290 sq ft/US gal]	3.6 m²/L [150 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. Dry film thickness should not exceed 400 micron [16 mils] per coat.

## 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 -10°C [14°F] during application and curing.

## Application remarks

- Consult Hempel's Application Guidelines and Instructions for more details.

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## Drying and overcoating

### Product compatibility

- Previous coat: None or according to specification.
- Subsequent coat: According to specification.

### Drying time

Surface temperature			-10°C [14°F]	0°C [32°F]	20°C [68°F]	40°C [104°F]
Touch dry	hours		12	5	¾	¼
Hard dry	hours		27	14	3½	1
Fully cured	days		56	20	5	1½
Overcoating with same product	Min	hours	36	18	4	2
	Max	days	90	90	30	15

Determined for dry film thickness 125 micron [4.9 mils] at standard conditions, see Hempel's Explanatory Notes for details. The overcoating intervals have been determined at the conditions: atmospheric, severe. The intervals stated in the Specification supersede these values.

### 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.
- Before overcoating, after exposure in contaminated environment, clean surface thoroughly by high pressure fresh water hosing or by hosing down with fresh water and scrubbing with a stiff brush and allow to dry.

## Storage

### Shelf life

Ambient temperature	25°C [77°F]	35°C [95°F]
Base	36 months	36 months
Curing agent	12 months	12 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](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.
- Application Instruction for this product.
- Hempel's Technical Standard for tank coating work (issued: November 2019).

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.