



HEMPADUR QUATTRO 17634

17634 : BASE 17636: CURING AGENT 97334

- Description:** HEMPADUR QUATTRO 17634 is a two-component universal epoxy paint, which cures to a hard and tough coating with good resistance to abrasion, seawater and various oils.
- Recommended use:** As a universal epoxy and self-primed high performance coating system for atmospheric or in-water service, including water ballast tanks to be coated according to IMO-PSPC requirements (Resolution MSC.215(82)). HEMPADUR QUATTRO 17634 is intended for all year application down to -10°C/15°F and for in-shop applications where fast recoating and handling is required.
- Features:** Excellent anticorrosive and very good mechanical properties.
Short drying time.
Curing down to -10°C/14°F.
- Service temperature:** Maximum, dry exposure only: 120°C/248°F
Ballast water service. Resists normal ambient temperatures at sea (Avoid long-term exposure to negative temperature gradients).
In water (no temperature gradient): 40°C/105°F
Other liquids. Contact HEMPEL
- Certificates/Approvals:** PSPC type approved. (Consult HEMPEL for specific Type Approval Certificates)
Complies with Section 175.300 of U.S. Federal Regulations in respect of carriage of dry foodstuffs (FDA) in spaces with an internal surface area larger than 1000 m²/10.750 sq.ft.

Tested for non-contamination of grain cargo at the Newcastle Occupational Health & Hygiene, Great Britain.
- Availability:** Part of Group Assortment. Local availability subject to confirmation. HEMPADUR QUATTRO 17634 replaces HEMPADUR 17630/17633 and HEMPADUR 45141/45143.

PHYSICAL CONSTANTS:

- Shade nos/Colours: 50630* / Red.
Finish: Semi-flat
Volume solids, %: 72 ± 1
Theoretical spreading rate: 5.8 m²/l [232.6 sq.ft./US gallon] - 125 micron/5 mils
Flash point: 27 °C [80.6 °F]
Specific gravity: 1.4 kg/litre [11.6 lbs/US gallon]
Dry to touch: 4 approx. hour(s) 20°C/68°F 9 (approx.) hours
5°C/41°F
Fully cured: 7 day(s) 20°C/68°F
20 days 5°C/41°F
VOC content: 275 g/l [2.3 lbs/US gallon]

**other shades according to assortment list.*

The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.

APPLICATION DETAILS:

- Version, mixed product:** **17634**
BASE 17636: CURING AGENT 97334
- Mixing ratio: 4 : 1 by volume
- Application method: Airless spray / Brush
- Thinner (max.vol.): 08450 (5%) / 08450 (5%)
- Pot life (Airless spray): 2 hour(s) 20°C/68°F
- Pot life (Brush): 2 hour(s) 20°C/68°F
- Induction time: see REMARKS overleaf
- Nozzle orifice: 0.021 - 0.025 "
- Nozzle pressure: 250 bar [3625 psi]
(Airless spray data are indicative and subject to adjustment)
- Cleaning of tools: HEMPEL'S TOOL CLEANER 99610
- Indicated film thickness, dry: 125 micron [5 mils]
- Indicated film thickness, wet: 175 micron [7 mils]
- Recoat interval, min: According to separate APPLICATION INSTRUCTIONS
- Recoat interval, max: According to separate APPLICATION INSTRUCTIONS
- Safety:** Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult HEMPEL Safety Data Sheets and follow all local or national safety regulations.



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SURFACE PREPARATION:

New steel: Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Abrasive blasting to minimum Sa 2½ (ISO 8501-1:2007) with a surface profile corresponding to Rugotest No. 3, N9a to N10, preferably BN9a to BN10, Keane-Tator Comparator, 2.0 G/S or ISO Comparator, Medium (G). Apply immediately after cleaning. All damage of shopprimer and contamination from storage and fabrication should be thoroughly cleaned prior to overcoating. For repair and touch-up use: HEMPADUR QUATTRO 17634.

Ballast tanks: For PSPC type approved coating, consult separate APPLICATION INSTRUCTIONS.

Steel, maintenance: Remove oil and grease, etc. with suitable detergent. Remove salt and other contaminants by (high pressure) fresh water cleaning. Clean damaged areas thoroughly by power tool cleaning to St 3 (minor areas) or by abrasive blasting to min. Sa 2, preferably to Sa 2½. Improved surface preparation will improve the performance of the paint. As an alternative to dry cleaning, water jetting to sound, well adhering coat and/or to steel. Intact coat must appear with roughened surface after the water jetting. By water jetting to steel, cleanliness shall be Wa 2 - WA 2½ (atmospheric exposure) / minimum Wa 2½ (immersion) (ISO 8501-4:2006). A flash-rust degree of maximum M (atmospheric exposure) / M, preferably L (immersion) (ISO 8501-4:2006) is acceptable before application. Feather edges to sound and intact paint. Dust off residues. Touch up to full film thickness. On pit-corroded surfaces, excessive amounts of salt residues may call for water jetting or wet abrasive blasting, alternatively dry abrasive blasting followed by high pressure fresh water hosing, drying, and finally, dry abrasive blasting again.

Other substrates: contact Hempel.

APPLICATION CONDITIONS:

Use only where application and curing can proceed at temperatures above: -10°C/14°F. The temperature of the paint itself should be above: 15°C/59°F. Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.

PRECEDING COAT

None, or as per specification. When diluted to 25-30%, the product can be used as blast primer preceding a full coat application of the product.

SUBSEQUENT COAT:

According to specification.

REMARKS:

Weathering/service temperatures:

The natural tendency of epoxy coatings to chalk in outdoor exposure and to become more sensitive to mechanical damage and chemical exposure at elevated temperatures is also reflected in this product. Has a tendency to yellow after application. This has no influence on the performance nor does the yellowing affect any topcoat applied.

Induction time:

To facilitate proper application properties it is recommended to allow the thoroughly mixed BASE and CURING AGENT to prereact before application at temperatures below: 15°C/59°F.

Pot life of mixed paint:

3 hours - 15°C/59°F

2 hours - 20°C/68°F

1.5 hours - 25°C/77°F

1 hour(s) - 30°C/86°F

The viscosity can be too high for airless spray application below: 15°C/59°F. Temperatures above 30°C/86°F should preferably be avoided.

In case two-component spray-equipment is used consult separate APPLICATION INSTRUCTIONS.

Film thicknesses/thinning:

May be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate and may influence drying time and recoating interval. Normal range dry is: 100-200 micron/4-8 mils. For ballast tanks at newbuilding stage minimum specified dft is: 2 x 160 micron. (Consult the separate APPLICATION INSTRUCTIONS)

Note:

HEMPADUR QUATTRO 17634 For professional use only.

ISSUED BY:

HEMPEL A/S

1763450630

This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" available on www.hempel.com. Data, specifications, directions and recommendations given in this data sheet represent only test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use of the Products herein must be determined exclusively by the Buyer and/or User.

The Products are supplied and all technical assistance is given subject to HEMPEL's GENERAL CONDITIONS OF SALES, DELIVERY AND SERVICE, unless otherwise expressly agreed in writing. The Manufacturer and Seller disclaim, and Buyer and/or User waive all claims involving, any liability, including but not limited to negligence, except as expressed in said GENERAL CONDITIONS for all results, injury or direct or consequential losses or damages arising from the use of the Products as recommended above, on the overleaf or otherwise. Product data are subject to change without notice and become void five years from the date of issue.