



Product Data

HEMPADUR 17630/ HEMPADUR 17633

17630: BASE 17639 with CURING AGENT 97330
17633: BASE 17639 with CURING AGENT 98420

Description:	HEMPADUR 17630/17633 is a two-component, high-build, polyamide adduct-cured epoxy paint which cures to a hard and tough coating with good resistance to abrasion, seawater and crude oils.	
Recommended use:	As a selfprimed coating for ballast water tanks and similar. As a primer for epoxy systems for atmospheric or in-water service, eg ship hulls. Suitable for application down to -10°C/ 15°F. HEMPADUR 17633 is intended for use in cold/temperate climates, HEMPADUR 17630 is intended for use in temperate to warm climates.	
Service temperatures:	Dry exposure only: Maximum 120°C/248°F (See REMARKS overleaf) Ballast water service: Resists normal ambient temperatures at sea* Other water service: 40°C/104°F (no temperature gradient) Other liquids: Contact HEMPEL *Avoid long-term exposure to negative temperature gradients.	
Certificates/Approvals:	HEMPADUR 17630 has been classified B1 by Marintek, Norway. Approved by Lloyd's Register of Shipping as a provisionally recognized corrosion control coating. Approved as a corrosion control coating by Maritime Register of Shipping, Russia. Approved as a ballast tank coating by Germanischer Lloyd, Germany. HEMPADUR 17630 has been tested for non-contamination of grain cargo at the Newcastle Occupational Health, Great Britain. HEMPADUR 17630 complies with Section 175.300 of the Code of Federal Regulations in respect of carriage of dry foodstuffs (FDA) in spaces with an internal surface area larger than 1000 m ² /10.750 sq.ft. Complies with EU Directive 2004/42/EC, subcategory j (see REMARKS overleaf).	
Availability:	Part of Group Assortment. Local availability subject to confirmation.	
PHYSICAL CONSTANTS:		
Version; mixed product:	17630	17633
Colours/Shade nos:	Grey/12170 - Red/50630	Grey/12170 - Red/50630
Finish:	Semi-flat	Semi-flat
Volume solids, %:	69 ± 1	69 ± 1
Theoretical spreading rate:	4.6 m ² /litre - 150 micron 184 sq.ft./S gallon - 6 mils	4.6 m ² /litre - 150 micron 184 sq.ft./S gallon - 6 mils
Flash point:	32°C/90°F	32°C/90°F
Specific gravity:	1.4 kg/litre - 11.7 lbs/US gallon	1.4 kg/litre - 11.7 lbs/US gallon
Dry to touch:	7-8 hours at 20°C/68°F	16 hours (app.) at 5°C/41°F
Fully cured:	7 days at 20°C/68°F	20 days at 5°C/41°F
V.O.C.:	310 g/litre - 2.6 lbs/US gallon	305 g/litre - 2.5 lbs/US gallon
	<i>The physical constants stated are nominal data according to the HEMPEL Group's approved formulas. They are subject to normal manufacturing tolerances and where stated, being standard deviation according to ISO 3534-1.</i>	
APPLICATION DETAILS:	17630	17633
Mixing ratio:	Base 17639 : Curing agent 97330 4 : 1 parts by volume	Base 17639 : Curing agent 98420 4 : 1 parts by volume
Application method:	Airless spray Brush	Airless spray Brush
Thinner (max.vol.):	08450 (5%) 08450 (5%)	08450 (5%) 08450 (5%)
Pot life:	2 hours (20°C/68°F)	2 hours (20°C/68°F)
Induction time:	See REMARKS overleaf	
Nozzle orifice:	.021"-.025"	
Nozzle pressure:	250 bar/3600 psi (Airless spray data are indicative and subject to adjustment)	
Cleaning of tools:	HEMPEL'S TOOL CLEANER 99610	
Indicated film thickness, dry:	150 micron/6 mils	
Indicated film thickness, wet:	225 micron/9 mils	
Recoat interval, min:	8 hours (20°C/68°F)	24 hours (5°C/41°F)
Recoat interval, max:	See separate APPLICATION INSTRUCTIONS	
Safety:	Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult HEMPEL Material Safety Data Sheets and follow all local or national safety regulations. Avoid inhalation, avoid contact with skin and eyes, and do not swallow. Take precautions against possible risks of fire or explosions as well as protection of the environment. Apply only in well ventilated areas.	



HEMPADUR 17630/17633

SURFACE PREPARATION:

New steel: Remove oil and grease, etc. with suitable detergent. Remove salt and other contaminants by (high pressure) fresh water cleaning. Abrasive blasting to Sa 2½. For temporary protection, if required, use a suitable shopprimer. All damage of shopprimer and contamination from storage and fabrication should be thoroughly cleaned prior to final painting. For repair and touch up, use HEMPADUR 17630.

Ballast tanks: For PSPC type approved coating, consult separate APPLICATION INSTRUCTIONS - BALLAST TANKS for HEMPADUR 17630.

Repair and 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 HEMPADUR 17630/17633.

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.

APPLICATION CONDITIONS:

Use only where application and curing can proceed at temperatures above -10°C/14°F (curing agent 98420) and 0°C/32°F (curing agent 97330). The temperature of the paint itself should be above 15°C/59°F for proper application. 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.

SUBSEQUENT COAT:

None or according to specification.

REMARKS:

VOC - EU directive 2004/42/EC:

17630				
	As supplied	5 vol. % thinning	Limit phase I, 2007	Limit phase II, 2010
VOC in g/l	310	335	550	500
17633				
	As supplied	5 vol. % thinning	Limit phase I, 2007	Limit phase II, 2010
VOC in g/l	305	330	550	500

VOC:

For VOC of other shades, please refer to Safety Data Sheet.

Certificates are issued under the former quality number 1763.

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.

Film thicknesses:

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 125-200 micron/5-8 mils.

Curing agent:

Curing agent 98420 is hazy. This is intended and has no negative influence on the performance.

Mixing/ induction time:

To facilitate proper application properties it is recommended to allow the thoroughly mixed BASE and CURING AGENT to prereact before application. In case two-component spray-equipment is used consult separate APPLICATION INSTRUCTIONS.

Note:

HEMPADUR 17630/17633 is for professional use only.

ISSUED BY:

HEMPEL A/S - 1763012170C0006 / 1763312170C0003

This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" in the HEMPEL Book.

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.

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Product data are subject to change without notice and become void five years from the date of issue.