

17870: BASE 17879: CURING AGENT 95870

Description:	HEMPADUR QUATTRO XO 17870 is a two-component, pure epoxy universal primer, which cures to a hard and tough coating with good resistance to abrasion and seawater. The product is available with different levels of Aluminium and Fibre pigmentation to deliver tailor made optimized performance properties for different harsh service conditions.
Recommended use:	As a universal pure 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 defined in the IMO Resolution MSC.215(82)). HEMPADUR QUATTRO XO 17870 is intended for all year application down to -10°C/14°F and for applications where fast recoating and handling is required.
Features:	Excellent anticorrosive and very good mechanical properties. Available with Aluminium and Fibre pigmentation. 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). Other liquids: Contact HEMPEL
Certificates/Approvals:	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.

PHYSICAL CONSTANTS:

Shade nos/Colours:	50630*/ Red
Finish:	Semi-flat
Volume solids, %:	80 ± 2
Theoretical spreading rate:	6.4 m ² /l [256.6 sq.ft./US gallon] - 125 micron/5 mils
Flash point:	35 °C [95 °F]
Specific gravity:	1.5 kg/litre [12.2 lbs/US gallon]
Dry to touch:	3 approx. hour(s) 20°C/68°F 8 (approx.) hour(s) 5°C/41°F
Fully cured:	5 day(s) 20°C/68°F 15 day(s) 5°C/41°F
VOC content:	178 g/l [1.5 lbs/US gallon] (According to EPA Fed Ref Method 24)
Shelf life:	3 years for BASE and 2 years (25°C/77°F) for CURING AGENT from time of production. <i>*other shades according to assortment list.</i>

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

APPLICATION DETAILS:

Version, mixed product:	17870
Mixing ratio:	BASE 17879: CURING AGENT 95870 4:1 by volume
Application method:	Airless spray / Brush / Roller
Thinner (max.vol.):	08450 (5%) / 08450 (5%) / 08450 (5%)
Pot life (Airless spray):	1 hour(s) 20°C/68°F
Pot life (Brush):	1.5 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:	150 micron [6 mils]
Overcoat interval, min:	see REMARKS overleaf
Overcoat interval, max:	see REMARKS overleaf

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:	<p>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 XO 17870.</p> <p>Ballast tanks: For PSPC type approved coating, consult separate APPLICATION INSTRUCTIONS</p> <p>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), 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.</p> <p>Other substrates: contact Hempel.</p>
APPLICATION CONDITIONS:	Use only where application and curing can proceed at temperatures above: -10°C/14°F. Apply only on a dry and clean surface with a temperature min. 3°C/5°F 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:	
Colours/Colour stability:	Has a tendency to yellow after application. This will have no influence on the performance.
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.
Induction time:	To facilitate proper application properties it is recommended to allow the thoroughly mixed BASE and CURING AGENT to prereact before application. (Consult the separate APPLICATION INSTRUCTIONS)
Film thicknesses/thinning:	In case two-component spray-equipment is used consult separate APPLICATION INSTRUCTIONS. 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 overcoating interval. Normal range dry is: 100-250 micron/4-8 mils. For ballast tanks and cargo oil tanks at newbuilding stage minimum specified dft is: 2 x 160 micron. (Consult the separate APPLICATION INSTRUCTIONS).
Shades:	Additionally to a range of standard shades there are various aluminium pigmented shades available. The higher aluminium content shades may have slightly different VS% and VOC than the standard shades. Further, the product also comes in special shades available with micro-fibre reinforcing pigments for extended durability in harsh service conditions.
Overcoating:	Overcoating intervals related to later conditions of exposure: 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 the surface thoroughly with high pressure fresh water hosing and allow drying.

A specification supersedes any guideline overcoat intervals indicated in the table.

Environment	Atmospheric, medium					
Surface temperature:	-10°C (14°F)		0°C (32°F)		20°C (68°F)	
	Min	Max	Min	Max	Min	Max
HEMPADUR	13 h	Ext.	7 h	Ext.	1.5 h	Ext.
HEMPATEX	13 h	68 h	7 h	34 h	1.5 h	8 h
HEMPATHANE	27 h	90 d	13 h	45 d	3 h	10 d
Environment	Immersion					
HEMPADUR	27 h	90 d	13 h	90 d	3 h	30 d

NR = Not Recommended, Ext. = Extended, m = minute(s), h = hour(s), d = day(s)

Note:	HEMPADUR QUATTRO XO 17870 For professional use only.	
ISSUED BY:	HEMPEL A/S	1787050630

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.