

HEMPADUR* 45070

CURING AGENT 97070

Description:	HEMPADUR 4507 is a two-component, high-build, polyamine cured epoxy paint which cures to a coating with good wetting properties and excellent resistance to seawater and crude oil.		
Recommended use:	As a selfpriming repair and maintenance coating for ballast tanks and void spaces. Suitable for application down to 0°C/32°F.		
Service temperatures:	Dry:	In oil:	In water (max temperature gradient 10°C/18°F):
Maximum:	90°C/194°F	60°C/140°F	40°C/104°F
Approvals, certificates:	After testing at Marintek, a subsidiary of Sintef in Norway, the system: 2 coats of HEMPADUR 4507, was given the highest classification, B1. Accepted by Lloyd's Register of Shipping as a provisionally recognized corrosion control coating.		
Availability:	Subject to confirmation.		

PHYSICAL CONSTANTS:

Colours/Shade nos:	Grey/12170 - Cream/20320
Finish:	Flat
Volume solids:	72%
Theoretical spreading rate:	4.8 m²/litre - 150 micron 192 sq.ft./US gallon - 6 mils
Flash point:	35°C/95°F
Specific gravity:	1.4 kg/litre - 11.7 lbs/US gallon
Dry to touch:	7-8 hours at 20°C/68°F
Fully cured:	7 (approx.) days at 20°C/68°F
V.O.C.:	270 g/litre - 2.3 lbs/US gallon

*The physical constants are subject to normal manufacturing tolerances.
Further reference is made to "Explanatory Notes" in the Hempel Book.*

APPLICATION DETAILS:

Mixing ratio for 45070:	Base 45079 : Curing agent 97070 4 : 1 by volume	
Application method:	Airless spray	Brush (touch up)
Thinner (max.vol.):	0845 (5%)	0845 (5%)
Pot life:	2 hrs (20°C/68°F)	
Nozzle orifice:	.021"-.023"	
Nozzle pressure:	250 bar/3600 psi (Airless spray data are indicative and subject to adjustment)	
Cleaning of tools:	HEMPEL'S TOOL CLEANER 9961	
Indicated film thickness, dry:	150 micron/6 mils	
Indicated film thickness, wet:	200 micron/8 mils	
Recoat interval, min:	16 hours (20°C/68°F) (see REMARKS overleaf)	
Recoat interval, max:	See REMARKS overleaf	

Issued: March 1998

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SURFACE PREPARATION: **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 (spot-repairs) or by abrasive blasting to min. Sa 2, preferably to Sa 2½. Improved surface preparation will improve the performance of HEMPADUR 4507. As an alternative to dry cleaning, waterjetting to min. WJ-3, preferably WJ-2 (NACE No. 5/SSPC-SP 12), may be used. A flash-rust degree of maximum FR-2 (Hempel standard) 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, wet abrasive blasting, alternatively dry abrasive blasting, 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 0°C/32°F. The temperature of the surface must also be above this limit. 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.

PRECEDING COAT: None.

SUBSEQUENT COAT: None.

REMARKS:
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.

Recoating: Recoating intervals related to curing temperatures:
(150 micron/6 mils dry film thickness of HEMPADUR 4507)

	Minimum			Maximum*		
Steel temperature	0°C/32°F	10°C/50°F	20°C/68°F	0°C/32°F	10°C/50°F	20°C/68°F
Recoated with HEMPADUR 4507	4 days	32 hours	16 hours	3 weeks	10 days	5 days

* If the coating has been subjected to direct sunlight for only a short period, the maximum recoating interval may be prolonged to 30 days (20°C/68°F).

Before recoating after exposure in contaminated environment, clean the surface thoroughly by (high pressure) fresh water hosing and allow to dry. If the maximum recoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.

Note: **HEMPADUR 4507 is for professional use only.**

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. Harmful or fatal if swallowed; immediately seek medical assistance if swallowed. Avoid inhalation of possible solvent vapours or paint mist, as well as paint contact with skin and eyes. Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of fire and explosions.

This Product Data Sheet supersedes those previously issued. For definition and scope, see explanatory notes to applicable Product Data Sheets. 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.

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March 1998 - 4507012170CR002