

# HEMPADUR\* 15130

CURING AGENT 95140

<b>Description:</b>	HEMPADUR 1513 is a two-component, polyamide cured coal tar epoxy which provides a very hardwearing coating, highly resistant to crude oil, sea-water, and fuel oil, etc. Not resistant to aromatic solvents, including some grades of petrol, or stronger solvents. Aliphatic solvents may discolour. Harmless to grain cargo.		
<b>Recommended use:</b>	As a self-priming coating system for long-term protection of steel and concrete in severely corrosive environment, eg surfaces submerged in fresh water or seawater or exposed in tidal and splash zones. It provides excellent protection as a lining in crude and fuel oil tanks. If the exposure is acidic or a temperature gradient is developed, it is recommended to use HEMPADUR 1510. For application at lower temperatures, ie in the interval from -10°C/14°F to +10°C/50°F, it is recommended to use HEMPADUR LTC 1503.		
<b>Service temperatures:</b>	Dry:	In oil:	In water (no temperature gradient):
Maximum:	90°C/194°F	60°C/140°F	45°C/113°F
<b>Approvals, certificates:</b>	Approved as a low flame spread material by German and Japanese authorities. Accepted by Lloyd's Register of Shipping, American Bureau of Shipping, Bureau Veritas and Maritime Register of Shipping, Russia, as a recognized corrosion control coating. Tested for non-contamination of grain cargo at the Newcastle Occupational Health Agency, Great Britain. After testing at Marintek, a subsidiary of Sintef in Norway, HEMPADUR 1513 was given the highest classification, B1.		
<b>Availability:</b>	Subject to confirmation.		
<b>PHYSICAL CONSTANTS:</b>			
Colours/Shade nos:	Black /19990	Brown/60430*	
Finish:	Semi-gloss	Semi-gloss	
Volume solids:	70%	70%	
Theoretical spreading rate:	5.6 m²/litre - 125 micron 225 sq.ft./US gallon - 5 mils	5.6 m²/litre - 125 micron 225 sq.ft./US gallon - 5 mils	
Flash point:	25°C/77°F	25°C/77°F	
Specific gravity:	1.3 kg/litre - 10.8 lbs/US gallon	1.3 kg/litre - 10.8 lbs/US gallon	
Surface dry:	6 (approx.) hrs at 20°C/68°F (ISO 1517)	5 (approx.) hrs at 20°C/68°F (ISO 1517)	
Dry to touch:	7-8 hours at 20°C/68°F	6-7 hours at 20°C/68°F	
Fully cured:	7 days at 20°C/68°F	7 days at 20°C/68°F	
V.O.C.:	292 g/litre - 2.4 lbs/US gallon	300 g/litre - 2.4 lbs/US gallon	
<b>Shelf life:</b>	1 year from time of production. Depending on storage conditions, mechanical stirring may be necessary before usage.		
	<i>*Shade 60730 may replace shade 60430. Consult assortment list.</i>		
	<i>The physical constants are subject to normal manufacturing tolerances. Further reference is made to "Explanatory Notes" in the Hempel Book.</i>		
<b>APPLICATION DETAILS:</b>			
Mixing ratio for 15130:	Base 15139 : Curing agent 95140 4 : 1 by volume		
Application method:	Airless spray	Brush (touch-up)	
Thinner (max.vol.):	0845 (5%)	0845 (5%)	
Pot life:	2 hours (20°C/68°F)	6 hours (20°C/68°F)	
Nozzle orifice:	.023"		
Nozzle pressure:	200 bar/2900 psi (Airless spray data are indicative and subject to adjustment)		
Cleaning of tools:	HEMPEL'S TOOL CLEANER 9961		
Indicated film thickness, dry:	125 micron/5 mils (See REMARKS overleaf)		
Indicated film thickness, wet:	175 micron/7 mils		
Recoat interval, min:	See REMARKS overleaf		
Recoat interval, max:	See REMARKS overleaf		
<b>Issued:</b>	September 1996		

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**SURFACE PREPARATION:** **New steel:** Abrasive blasting to Sa 2½, SSPC-SP-10. 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 1513.

**Concrete:** Remove slip agent and other possible contaminants by emulsion washing followed by high pressure hosing with fresh water. Remove scum layer and loose matter to a hard, rough and uniform surface, preferably by abrasive blasting, possibly by other mechanical treatment or acid etching. Seal surface with suitable sealer, eg HEMPADUR SEALER 0597 (furthermore, see the Product Data Sheet for HEMPADUR SEALER 0597).

**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 abrasive blasting or power tool cleaning. As an alternative to dry cleaning, water jetting 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 areas. Dust off residues. Touch up to full film thickness.

**APPLICATION CONDITIONS:** Use only where application and curing can proceed at temperatures above 5°C/41°F. The temperature of the paint itself should preferably be above 15°C/59°F. Best results are obtained at surface and paint temperatures of 15-25°C/59-77°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.

**SUBSEQUENT COAT:** None or as per specification depending on area of use.

### 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:** The best time for recoating is when the paint film is still slightly tacky. This curing stage is for 125 micron dry film thickness reached after approximately 6 hours at 20°C/68°F and sufficient ventilation.

The recoating intervals in hours for HEMPADUR 1513 (on condition of sufficient ventilation):

Surface temperature		5°C/41°F		10°C/50°F		20°C/68°F		30°C/86°F	
DFT of HEMPADUR 1513		125	200	125	200	125	200	125	200
HEMPATEX qualities	Min	21	39	14	27	6	11	4	7
	Max	56	73	36	45	16	21	10	14
HEMPANYL TAR 1628	Min	21	39	14	27	6	11	4	7
	Max	82	92	54	61	24	29	16	19
HEMPADUR qualities	Min	21	39	14	27	6	11	4	7
	Max	7 d	7 d	4½ d	4½ d	48	48	32	32

The maximum recoating interval between layers of HEMPADUR 1513 can be doubled on the condition that the coating has not been exposed to sunlight, water/condensation, or to (other) contamination before recoating. Furthermore the surface of the first layer of HEMPADUR 1513 must be free of any exudations. This is secured by keeping the conditions of application, drying and curing, i.e. such as ventilation, temperature, film thickness and thinning within the above described limits. Note that excessive temperatures also must be avoided. If the maximum recoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.

**Notes:** Bleeding may occur into subsequent coats. The effect is cosmetic only and has no negative influence on neither the anticorrosive nor the antifouling properties of the system.

**HEMPADUR 1513 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

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.

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applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of fire and explosions.