HEMPADUR® 15130

BASE 15139 with CURING AGENT 95140

Description:

HEMPADUR 15130 is a two-component, polyamide cured coal tar epoxy which provides a very hardwearing coating, highly resistant to seawater and mineral oils. Limited resistance to a number of solvents. Aliphatic hydrocarbons may be discoloured.

Recommended use:

As a self-priming coating system for long-term protection of steel and concrete in severely corrosive environment. 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 15100. 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 15030.

Service temperatures:

Dry exposure only:	Maximum 90°C/194°F *(See REMARKS overleaf)*
Ballast water service:	Resists normal ambient temperatures at sea*
Other water service:	45°C/113°F (no temperature gradient)
Other liquids:	Contact HEMPEL

**Avoid long-term exposure to negative temperature gradients.*

Certificates/Approvals:

Approved 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, Great Britain.
Approved as a ballast tank coating by Germanischer Lloyd, Germany.
Classification B1 by Marintek, Norway.

Availability:

Not included in Group Assortment. Availability subject to special agreement.

PHYSICAL CONSTANTS:

Colours/Shade nos:	Black /19990	Brown/60430
Finish:	Semi-gloss	Semi-gloss
Volume solids, %:	70 ± 1	70 ± 1
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.:	295 g/litre - 2.4 lbs/US gallon	300 g/litre - 2.4 lbs/US gallon
Shelf life:	1 year (25°C/77°F) from time of production. Depending on storage conditions, mechanical stirring may be necessary before usage.	

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.

APPLICATION DETAILS:

Mixing ratio for 15130:	Base 15139 : Curing agent 95140 4 : 1 by volume	
Application method:	Airless spray	Brush (touch-up)
Thinner (max.vol.):	08450 (5%)	08450 (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 99610	
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	

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.

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SURFACE PREPARATION:

New steel: 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 15130.
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 05990 (furthermore, see the Product Data Sheet for HEMPADUR SEALER 05990).
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 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 minimum WJ-2 (NACE No. 5/SSPC-SP 12). A flash-rust degree of FR-2, preferably FR-1 (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 paint temperatures of 15-25°C/59-77°F. Apply only on a dry and clean surface with a temperature above the dew point (approx. 3°C/5°F above) 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:

Certificates are issued under the former quality number 1513.

Weathering/ service temperatures:

The natural tendency of epoxy coatings 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.

Recoating:

The recoating intervals in hours for HEMPADUR 15130 (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 15130		125	200	125	200	125	200	125	200
HEMPATEX HI-BUILD 46330	Min	21	39	14	25	6	11	4	7
	Max	54	76	36	48	16	22	11	14
HEMPADUR qualities	Min	21	39	14	25	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 15130 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 15130 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 15130 is for professional use only.

ISSUED BY:

HEMPEL A/S - 1513019990CO0016

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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