

35740: BASE 35749: CURING AGENT 98040

Description:	HEMPADUR EM 35740 is a two-component, ultra high solids and very low VOC epoxy coating. It has good self priming properties and is suited for application even under humid conditions and on marginally prepared surfaces. Treated areas, e.g. ballast tanks, can quickly be re-immersed and put back in service. Time to ballast: 8 hours (20°C/68°F).
Recommended use:	For small difficult to access areas where climate control and surface preparation is difficult. It is especially recommended for onboard maintenance and spot repair in e.g. water ballast tank and decks. It can be used on moist surfaces, under conditions of 100% relative humidity.
Features:	Damp surface tolerance Fast re-immersion Ultra high solids Very low VOC
Service temperature:	Maximum, dry exposure only: 120°C/248°F
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:	47960*/ Green
Finish:	Semi-gloss (see REMARKS overleaf)
Volume solids, %:	97 ± 1
Theoretical spreading rate:	6.5 m ² /l [260.6 sq.ft./US gallon] - 150 micron/6 mils
Flash point:	33 °C [91.4 °F]
Specific gravity:	1.3 kg/litre [11.1 lbs/US gallon]
Dry to touch:	8 approx. hour(s) 20°C/68°F
Fully cured:	5 day(s) (approx.), 20°C/68°F
VOC content:	52 g/l [0.4 lbs/US gallon]
Shelf life:	3 years for BASE and 3 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:	35740
Mixing ratio:	BASE 35749: CURING AGENT 98040 2:1 by volume
Application method:	Brush / Roller (See separate APPLICATION INSTRUCTIONS)
Thinner (max.vol.):	Do not dilute.
Pot life:	1 hour(s) 20°C/68°F
Cleaning of tools:	HEMPEL'S TOOL CLEANER 99610
Indicated film thickness, dry:	150 micron [6 mils] (See separate APPLICATION INSTRUCTIONS)
Indicated film thickness, wet:	175 micron [7 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:	Steel: Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Mechanical cleaning to St 3 (ISO 8501-1). Power tool cleaning or disc sanding, depending on material and condition of the surface. Pitted steel should be grinded and/or ground with high speed burrs. Round off sharp edges. Adjacent areas should be disc sanded or sandpapered for roughening in order to achieve a good anchor pattern, incl. feathering of the edges to old cured intact paint. Alternatively, water jetting to minimum Wa 2.5 (ISO 8501-4) and a flash-rust degree of maximum M (ISO 8501-4) is acceptable.
APPLICATION CONDITIONS:	Use only where application and curing can proceed at temperatures above: 5°C/41°F The temperature of the surface must also be above these limits.
PRECEDING COAT:	According to specification.
SUBSEQUENT COAT:	According to specification.
REMARKS:	
Colours/Colour stability:	The gloss is dependent of the humidity during cure. At the usual very high humidity in ballast tanks in a ship, the in-service result will be semi-gloss. In case of low humidity a glossy surface will appear.
Weathering/service temperatures:	Has a tendency to yellow after application. This will have no influence on the performance. If the coating is exposed to dry heat it exhibits the normal epoxy behaviour by being more sensitive to mechanical damage and by darkening. 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.
Substrate:	Any hard black rust (scale) will not effectively be removed by the usual hand-held mechanical tools. Leftovers of such scale can loosen later in service and accordingly call for continued onboard maintenance. Same apply for iron chlorides in the pittings - these can also be expected to exhibit to continued activity.
Stirring:	Stir the individual BASE and CURING AGENT thoroughly before mixing and again after mixing until a uniformly coloured mixture is obtained. Mix only a quantity of paint which can be applied within the time limit of the pot life.
Application(s):	Ballast tanks: Use intensive brushing in order to best possible work the coating into the surface and to force out any film of water.
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, severe					
	5°C (41°F)		20°C (68°F)		40°C (104°F)	
	Min	Max	Min	Max	Min	Max
Hempadur	16 h	40 d	2 h	10 d	0.5 h	2.5 d
Hempathane	2 d	8 d	6 h	2 d	1.5 h	12 h
Hempatex	2 d	4 d	6 h	24 h	1.5 h	6 h

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

Overcoating note:	If overcoating/overlapping takes place after an intermediate exposure to ballast water a very thorough cleaning of the surface is a must. A sandpapering or equivalent may be relevant.
Note:	HEMPADUR EM 35740 For professional use only.
ISSUED BY:	HEMPEL A/S

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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.

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