

## **Product Data**

## HEMPADUR 85671

85671 : BASE 85675 : CURING AGENT 97371

Description:	HEMPADUR 85671 is a two-component, amine adduct cured phenolic epoxy (novolac) coating with very good adhesion and high temperature, water and chemical resistance.
Recommended use:	As an interior lining in tanks, pipelines etc. for hot water, brine, crude oil, etc. For coating of potable water tanks. As a primer coat in specific painting systems.
Service temperature:	Maximum, dry exposure only: 160°C/320°F In water (maximum gradient 15°C/27°F): 90°C/194°F. May be specified for design temperatures up to 260°C/500°F dry. For higher temperatures see REMARKS overleaf.
Certificates/Approvals:	In accordance with ARAMCO's specification APCS 2A, 2B and 2C. Conforms to Norsok M-501, system no. 3. Approved by WRAS for potable water up to 23°C/73°F. Complies with Section 175.300 of U.S. Federal Regulations in respect of carriage of foodstuff (FDA) for tanks larger than 2006 m <sup>3</sup> /530,000 US gallon.
Availability:	Part of Group Assortment. Local availability subject to confirmation.
PHYSICAL CONSTANTS:	
Shade nos/Colours: Finish: Volume solids, %: Theoretical spreading rate: Flash point: Specific gravity: Surface dry: Dry to touch: Fully cured: VOC content: Shelf life:	<ul> <li>11150* / Light grey</li> <li>Flat</li> <li>68 ± 1</li> <li>6.8 m²/l [272.7 sq.ft./US gallon] - 100 micron/4 mils</li> <li>25 °C [77 °F]</li> <li>1.7 kg/litre [13.9 lbs/US gallon]</li> <li>2 - 3 hour(s) 20°C/68°F</li> <li>4 - 6 hour(s) 20°C/68°F</li> <li>10 day(s) 20°C/68°F</li> <li>316 g/l [2.6 lbs/US gallon]</li> <li>1 Year (20°C/68°F) from time of production. Shelf life is reduced at storage temperatures above 20°C/68°F.</li> <li>*other shades according to assortment list.</li> <li>The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.</li> </ul>
APPLICATION DETAILS:	
Version, mixed product: Mixing ratio:	<b>85671</b> BASE 85675 : CURING AGENT 97371 8.8 : 1.2 by volume 13.8 : 1.0 by weight
Application method: Thinner (max.vol.):	Airless spray / Brush (touch up) HEMPEL'S THINNER 08450 (Consult the separate APPLICATION INSTRUCTIONS)

Application method Thinner (max.vol.): Pot life: Induction time: Nozzle orifice: Nozzle pressure:

Cleaning of tools: Indicated film thickness, dry: Indicated film thickness, wet: Recoat interval, min:

Recoat interval, max:

Safety:

## 8.8 : 1.2 by volume 13.8 : 1.0 by weight d: Airless spray / Brush (touch up) HEMPEL'S THINNER 08450 (Consult the separate APPLIC. 3 hour(s) 20°C/68°F see REMARKS overleaf minute(s) 20°C/68°F see REMARKS overleaf 0.018 - 0.021 " 200 bar [2900 psi] (Airless spray data are indicative and subject to adjustment) HEMPEL'S TOOL CLEANER 99610 100 micron [4 mils] see REMARKS overleaf

150 micron [6 mils]

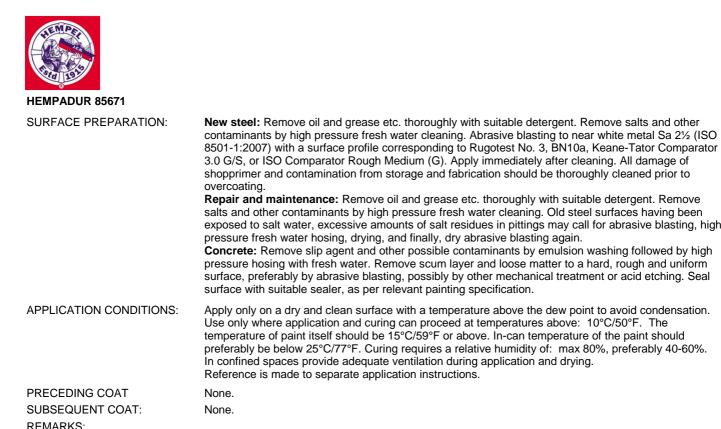
According to separate APPLICATION INSTRUCTIONS According to separate APPLICATION INSTRUCTIONS Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult HEMPEL Safety Data Sheets and follow all local or national safety regulations.

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.





Note: ISSUED BY:	HEMPADUR 85671 For professional use only. HEMPEL A/S 8567111150
Recoating intervals:	Minimum: Non-potable water service: 36 hours (20°C/68°F) between the first and second coat, 24 hours (20°C/68°F) between the second and third coat. Potable water service: 3 days (20°C/68°F) between coats. The approval from Folkehelseinstituttet, Norway will apply provided a minimum recoat interval of 6 days (20°C/68°F). Maximum: 21 days (20°C/68°F). If the maximum recoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.
	Drying and curing conditions have to be according to APPLICATION CONDITIONS until full curing has been obtained. No kind of surface contamination must exist except loose dust, abrasives, loose dry-spray, which is possible to remove by vacuum cleaning before overcoating. The surface MUST be completely clean before overcoating. The coating must only be (exceptionally) exposed to strong, direct sunlight (ultraviolet light) in short periods. The coating is to be checked carefully and should have no patchy, whitish, and/or greasy formation, which can hinder adhesion of the subsequent coat.
Recoating note:	mixture should be used within 2 hours at: 20°C/68°F The coating is to be applied in a dry film thickness as near as possible to the specified: 100 micron/4 mils
Storage Conditions:	125 micron/5 mils Keep thinning at absolute minimum. Do not dilute the components separately - only the mixture. Pot life: As per Aramco's requirements, gel time is above 8 hours at a can temperature of 23°C/73°F and above 2 hours at a can temperature of 40°C/164°F. For optimum spray application properties, the
Film thicknesses/thinning:	The minimum total dry film thickness for the system is normally: 300 micron/12 mils The coating should be cured for at least 7 days at 20°C/68°F before exposure to high temperatures. At temperatures above 200°C/392°F, max 260°C/500°F, it is recommended to apply maximum:
	depending on purpose and area of use Film formation of each coat has to be of good quality, free from defects such as pinholes and without any dry spray. Exudation of the curing agent causes the mentioned patchy, whitish, and/or greasy formation, which will take place if the product is applied at low temperatures without proper induction time and/or if the coating is exposed to water (rain, condensation) during drying and curing.
Application(s)	May be used under insulation, pipes and the like in one or two-coat systems. Dry film thicknesses should not exceed: 300 micron/12 mils. May be specified in another film thickness than indicated
Induction time:	The thoroughly mixed BASE and CURING AGENT must be prereacted before application (15 minutes at 20°C/68°F), at other temperatures, please see APPLICATION INSTRUCTIONS.
PRECEDING COAT SUBSEQUENT COAT: REMARKS:	None. None.
APPLICATION CONDITIONS:	Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. Use only where application and curing can proceed at temperatures above: 10°C/50°F. The temperature of paint itself should be 15°C/59°F or above. In-can temperature of the paint should preferably be below 25°C/77°F. Curing requires a relative humidity of: max 80%, preferably 40-60%. In confined spaces provide adequate ventilation during application and drying. Reference is made to separate application instructions.
	exposed to salt water, excessive amounts of salt residues in pittings may call for abrasive blasting, high pressure fresh water hosing, drying, and finally, dry abrasive blasting again. <b>Concrete:</b> 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, as per relevant painting specification.

