

47300: BASE 47309: CURING AGENT 97301

Description:	HEMPADUR 47300 is a two-component epoxy paint, which cures to a hard and tough coating with good resistance to abrasion and seawater.
Recommended use:	As a midcoat epoxy and self-primed high performance coating systems for atmospheric exposure. HEMPADUR 47300 is intended to all year application down to -10°C/14°F and for in-shop applications where fast recoating and handling is required. For longer overcoating intervals, the MIO version of this product, shade 12430, is recommended. Contact Hempel for details.
Features:	Excellent anticorrosive and very good mechanical properties. Short drying time. Curing down to -10°C/14°F.
Service temperature:	Maximum, dry exposure only: 120°C/248°F
Certificates/Approvals:	Conforms to NORSOK M-501, Ed. 6, system no. 1. Complies with ISO 12944-6 C4, C5-I and C5-M. Complies with UNE 48295:2003
Availability:	Part of Group Assortment. Local availability subject to confirmation.

PHYSICAL CONSTANTS:

Shade nos/Colours:	12170*/ Light grey
Finish:	Semi-flat
Volume solids, %:	83 ± 1
Theoretical spreading rate:	4.1 m ² /l [164.4 sq.ft./US gallon] - 200 micron/8 mils
Flash point:	25 °C [77 °F]
Specific gravity:	1.5 kg/litre [12.6 lbs/US gallon]
Dry to touch:	3 hour(s) , 20°C/68°F 9 hour(s) , 5°C/41°F
Fully cured:	7 day(s) , 20°C/68°F 20 day(s) , 5°C/41°F
VOC content:	183 g/l [1.5 lbs/US gallon]
Shelf life:	3 years for BASE and 1 year (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:	47300
Mixing ratio:	BASE 47309: CURING AGENT 97301 4:1 by volume
Application method:	Airless spray / Brush
Thinner (max.vol.):	08450 (5%) / 08450 (max 20%)
Pot life:	1.5 hour(s) , 20°C/68°F
Nozzle orifice:	0.019 - 0.023 "
Nozzle pressure:	250 bar [3625 psi] (Airless spray data are indicative and subject to adjustment)
Cleaning of tools:	HEMPEL'S TOOL CLEANER 99610 or HEMPEL'S THINNER 08450
Indicated film thickness, dry:	160 micron [6.4 mils]
Indicated film thickness, wet:	200 micron [8 mils]
Overcoat interval, min:	According to separate APPLICATION INSTRUCTIONS
Overcoat interval, max:	According to separate APPLICATION INSTRUCTIONS

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:	<p>New steel: Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Abrasive blasting to Sa 2½ (ISO 8501-1:2007). 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 47300.</p> <p>Repair and maintenance: Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Clean damaged areas thoroughly by power tool cleaning to St 3 (ISO 8501-1:2007) (minor areas) or by abrasive blasting to min. Sa 2, preferably to Sa 2½ (ISO 8501-1:2007). Improved surface preparation will improve the performance of the product.</p> <p>Other substrates: contact Hempel.</p>								
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/14°F. The temperature of the paint itself should be above: 15°C/59°F. In confined spaces provide adequate ventilation during application and drying.								
PRECEDING COAT:	According to specification. When diluted to 25-30%, the product can be used as blast primer preceding a full coat application of the product.								
SUBSEQUENT COAT:	According to specification.								
REMARKS:									
VOC - EU Directive 2004/42/EC:	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 25%;">Product</th> <th style="width: 25%;">As supplied</th> <th style="width: 25%;">5 vol. % thinning</th> <th style="width: 25%;">Limit phase II, 2010</th> </tr> </thead> <tbody> <tr> <td>4730012170</td> <td>183 g/l</td> <td>217 g/l</td> <td>500 g/l</td> </tr> </tbody> </table> <p>For VOC of other shades, please refer to Safety Data Sheet.</p>	Product	As supplied	5 vol. % thinning	Limit phase II, 2010	4730012170	183 g/l	217 g/l	500 g/l
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Colours/Colour stability:	Has a tendency to yellow after application. This will have no influence on the performance.								
Weathering/service temperatures:	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.								
Induction time:	To facilitate proper application properties it is recommended to allow the thoroughly mixed BASE and CURING AGENT to prereact before application at temperatures below: 15°C/59°F. Temperatures above 30°C/86°F should preferably be avoided. (Consult the separate APPLICATION INSTRUCTIONS)								
Film thicknesses/thinning:	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 overcoating interval. Normal range dry is: 100-250 micron/4-8 mils.								
Curing agent:	Curing agents are hazy. This is intended and has no negative influence on the performance.								
Note:	HEMPADUR 47300 For professional use only.								
ISSUED BY:	HEMPEL A/S 4730012170								

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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