

HEMPATHANE* TOPCOAT 55210

CURING AGENT 95370

Description:	HEMPATHANE TOPCOAT 5521 is a two-component, polyurethane coating with good gloss and colour retention.
Recommended use:	As a finishing coat for protection of structural steel in severely corrosive environment, where light-fastness and gloss retention are required. Minimum temperature for curing is -10°C/14°F.
Service temperatures:	Maximum, dry: 120°C/248°F (see REMARKS overleaf).
Approvals:	Approved as a low flame spread material by Germany authorities.
Availability:	Subject to confirmation.

PHYSICAL CONSTANTS:

Colours/Shade nos:	White/10000*	Blue/30840*
Finish:	Semi-gloss	Semi-gloss
Volume solids:	52%	49%
Theoretical spreading rate:	10.4 m ² /litre - 50 micron 417 sq.ft./US gallon - 2 mils	9.8 m ² /litre - 50 micron 393 sq.ft./US gallon - 2 mils
Flash point:	31°C/88°F	31°C/88°F
Specific gravity:	1.2 kg/litre - 10.0 lbs/US gallon	1.1 kg/litre - 9.2 lbs/US gallon
Surface dry:	2½ (approx.) hrs at 20°C/68°F (ISO 1517)	2½ (approx.) hrs at 20°C/68°F (ISO 1517)
Dry to touch:	8 (approx.) hours at 20°C/68°F	8 (approx.) 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.:	445 g/litre - 3.7 lbs/US gallon	465 g/litre - 3.9 lbs/US gallon

**Other shades according to assortment list.*

*The physical constants are subject to normal manufacturing tolerances.
Further reference is made to "Explanatory Notes" in the Hempel Book.*

APPLICATION DETAILS:

Mixing ratio for 55210:	Base 55219 : Curing agent 95370 7 : 1 by volume	
Application method:	Airless spray	Brush
Thinner (max. vol.):	See REMARKS overleaf	0808 (5%)
Pot life:	2 hours (20°C/68°F)	
Nozzle orifice:	.017"-.019"	
Nozzle pressure:	150 bar/2200 psi <i>(Airless spray data are indicative and subject to adjustment)</i>	
Cleaning of tools:	THINNER 0808 or 0851	
Indicated film thickness, dry:	50 micron/2 mils <i>(See REMARKS overleaf)</i>	
Indicated film thickness, wet:	100 micron/4 mils	
Recoat interval, min:	See REMARKS overleaf	
Recoat interval, max:	See REMARKS overleaf	

Issued: March 1998

2. HEMPETHANE TOPCOAT 55210

APPLICATION AND CURING CONDITIONS: The surface must be completely clean and dry at the time of application, and its temperature must be above the dew point to avoid condensation. Minimum temperature for curing is -10°C/14°F. At the freezing point and below, be aware of the risk of ice on the surface which will hinder the adhesion. High humidity and/or condensation during application and the following 16 hours (20°C/68°F) may adversely affect the film formation. In confined spaces provide adequate ventilation during application and drying.

PRECEDING COAT: HEMPADUR HI-BUILD 4520, HEMPADUR 4514, HEMPADUR 4530 or according to specification.

SUBSEQUENT COAT: None.

REMARKS:

Colours: Certain lead-free red and yellow colours may discolour when exposed to sulphide and chlorine-containing atmosphere.

Service temperatures: At service temperatures above 100°C/212°F, slight discoloration may be expected.

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 is 40-60 micron/1.6-2.4 mils.

Thinning: The type and amount of thinner depend on application conditions, application method, temperature, ventilation, and substrate. THINNER 0808 is recommended in general. THINNER 0851 may be used alternatively depending on local conditions.

Airless spray: 5-15% thinning is recommended. Under extreme conditions up to more than 20% may be necessary to obtain satisfactory film formation.

The best result is obtained by applying a mist coat of HEMPETHANE ENAMEL 5521 at first, and then 2-15 minutes later apply to full film thickness giving a uniform film formation. Do not exaggerate the film thickness.

Recoating and drying/curing time:

Physical data versus temperatures:						
Surface temperature		-10°C/14°F	0°C/32°F	10°C/50°F	20°C/68°F	30°C/86°F
Dry to touch, approx.		3 days	36 hours	16 hours	8 hours	6 hours
Resist condensing humidity/light showers after*:		(7 days)	3 days	32 hours	16 hours	12 hours
Fully cured, 70% RH		(2 months)	32 days	14 days	7 days	5 days
Recoating interval, recoating 5521 with 5521	Min	6 days	3 days	32 hours	16 hours	12 hours
	Max	None	None	None	None	None

*Faster drying and curing may be obtained by using an "accelerator" - consult HEMPEL for further advice.

A completely clean surface is mandatory to ensure intercoat adhesion, especially at long recoating intervals. Any dirt, oil, and grease has to be removed, e.g. with suitable detergent. Salts to be removed by fresh water hosing. To check an adequate quality of the surface cleaning a test patch is recommended before actual recoating.

Notes: CURING AGENT 95370 is sensitive to moisture. Store in a dry place and keep the can tightly closed until use. Open curing agent cans with caution as overpressure might exist. Even small traces of water in the mixed paint will reduce the pot-life and result in film defects.

HEMPETHANE TOPCOAT 5521 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 applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of fire and explosions.

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. Product data are subject to change without notice and become void five years from the date of issue.