

HEMPATHANE TOPCOAT 55910

CURING AGENT 97050

Description:	HEMPATHANE TOPCOAT 5591 is a flexible, two-component polyurethane coating. It is resistant to weathering, impact and abrasion. Easy to clean.
Recommended use:	As a high-build finishing coat for protection of structural steel in corrosive environment, especially for maintenance purposes.
Service temperatures:	Maximum, dry: 120°C/248°F (<i>see REMARKS overleaf</i>)
Availability:	Subject to confirmation.

PHYSICAL CONSTANTS:

Colours/Shade nos:	White/10000
Finish:	Glossy
Volume solids:	66%
Theoretical spreading rate:	6.6 m ² /litre - 100 micron 265 sq.ft./US gallon - 4 mils
Flash point:	31°C/88°F
Specific gravity:	1.5 kg/litre - 12.5 lbs/US gallon
Surface dry:	3 (approx.) hours at 20°C/68°F (<i>ISO 1517</i>)
Dry to touch:	5 (approx.) hours at 20°C/68°F
Fully cured:	7 days at 20°C/68°F
V.O.C.:	330 g/litre - 2.7 lbs/US gallon

*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 55910:	Base 55919 : Curing agent 97050 7 : 1 by volume
Application method:	Airless spray (<i>see REMARKS overleaf</i>) Brush (<i>see REMARKS overleaf</i>)
Thinner (max.vol.):	0808 (5%) 0808 (5%)
Pot life:	2 hours (20°C/68°F)
Nozzle orifice:	.017"-.021" (<i>Airless spray data are indicative and subject to adjustment</i>)
Nozzle pressure:	175 bar/2540 psi
Cleaning of tools:	THINNER 0808/0888
Indicated film thickness, dry:	100 micron/4 mils (<i>see REMARKS overleaf</i>)
Indicated film thickness, wet:	150 micron/6 mils
Recoat interval, min:	See REMARKS overleaf
Recoat interval, max:	See REMARKS overleaf

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APPLICATION 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 24 hours (20°C/68°F) may adversely affect the film formation. In confined spaces provide adequate ventilation during application and drying.

PRECEDING COAT: HEMPADUR 4515 or according to specification.

SUBSEQUENT COAT: None.

REMARKS:
Service temperatures: At service temperatures above 90°C/176°F discoloration must be expected.

Film thicknesses: May be specified in another film thickness than indicated depending on purpose and area of use. Normal range dry is minimum 75 micron/3 mils (undiluted), maximum 125 micron/5 mils. This will alter spreading rate and may influence drying time and recoat interval.

Recoat interval: **Minimum recoating interval** related to later conditions of exposure:

Surface temperature	-10°C/14°F	0°C/32°F	10°C/50°F	20°C/68°F	30°C/86°F
Normal	3 days	36 hours	16 hours	11 hours	6 hours
Severe*	3 days	36 hours	16 hours	11 hours	6 hours

Maximum recoating interval related to later conditions of exposure:

Surface temperature	-10°C/14°F	0°C/32°F	10°C/50°F	20°C/68°F	30°C/86°F
Normal	None	None	None	None	None
Severe*	4½ months	2 months	1 month	3 weeks	2 weeks

*Severe conditions of exposure will mean perodical immersion, heavy condensation, great variations in temperatures, chemical attack and/or abrasion during service life of the coating system. If the maximum recoat interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.

In case of recoating with other paint materials maximum will be 1-3 days (20°C/68°F) depending on type.

A completely clean surface is mandatory to ensure intercoat adhesion, especially at long recoat intervals. Any dirt, oil, and grease has to be removed. e.g. with suitable detergent followed by (high pressure) fresh water cleaning. 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 97050 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.

HEMPATHANE TOPCOAT 5591 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.

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