



Product data

VERNATHANE TOPCOAT 55210

Description: VERNATHANE TOPCOAT 55210 is a two-component, glossy acrylic polyurethane coating, cured with aliphatic isocyanate, with good gloss and colour retention.

Recommended use: As a finishing coat for protection of structural steel in severely corrosive atmospheric environment, where light-fastness and gloss retention are required. Minimum temperature for curing is -10°C/14°F. Maximum, dry exposure only: 120°C/248°F see REMARKS overleaf

Service temperature: low flame spread material when used as part of a predefined paint system.

Future :

PHYSICAL CONSTANTS:

Shade nos/Colours: 10000*/ White.
Finish: Glossy
Volume solids, %: 51 ± 1
Theoretical spreading rate: 10.2 m²/l [409 sq.ft./US gallon] - 50 micron/2 mils
Flash point: 33 °C [91.4 °F]
Specific gravity: 1.2 kg/litre [10.1 lbs/US gallon]
Surface-dry: 1 hour 20°C/68°F
Through-dry: 8 hour(s) 20°C/68°F
Fully cured: 7 day(s) 20°C/68°F
VOC content: 442 g/l [3.7 lbs/US gallon]
Shelf life: 3 years for BASE and 2 years (25°C/77°F) for CURING AGENT from time of production.
**Wide range of colours available via Verna MULTI-TINT system.
The physical constants stated are nominal data according to the Verna Group's approved formulas.*

APPLICATION DETAILS:

Version, mixed product: 55210
Mixing ratio: BASE 55219: CURING AGENT 95370
7:1 by volume
Application method: Airless spray / Brush
Thinner (max.vol.): see REMARKS overleaf / 08080 (5%)
Pot life: 4 hour(s) 20°C/68°F
Nozzle orifice: 0.017 - 0.019 "
Nozzle pressure: 150 bar [2175 psi]
(Airless spray data are indicative and subject to adjustment)
Cleaning of tools: VERNA'S THINNER 08080 or 08510
Indicated film thickness, dry: 50 micron [2 mils] see REMARKS overleaf
Indicated film thickness, wet: 100 micron [4 mils] see
Overcoat interval, min: REMARKS overleaf see
Overcoat interval, max: REMARKS overleaf

Safety: Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult VERNA Safety Data Sheets and follow all local or national safety regulations.



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SURFACE PREPARATION: According to specification

APPLICATION CONDITIONS: Apply only on a dry and clean surface with a temperature 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 adhesion. The film formation may be adversely affected by light rain, high humidity and/or condensation during application and the following interval after application: 10 hours, 20°C/68°F. In confined spaces provide adequate ventilation during application and drying.

PRECEDING COAT : According to specification. Recommended systems are: HEMPADUR45141/45143, VERNADUR MASTIC 45880/45881.

SUBSECOAT COAT : None.

REMARKS:

VOC - EU Directive 2004/42/EC:

Product	As supplied	10 vol. % thinning	Limit phase II, 2010
5521010000	442 g/l	483 g/l	500 g/l

For VOC of other shades, please refer to Safety Data Sheet.

Colours/Colour Stability : Colour stability for some shades may be effected by exposure to harsh chemical atmospheres. This does not affect the performance of the coating. For certain colours extra coats may be necessary to obtain full opacity.

At service temperature above 100°C/212°F, slight discolouration may be expected.

Weathering/service temperatures: For aluminium pigmented shades scratching actions or high humidity/water may cause discolouration/disturbances of the surface. This will have no influence on the performance. This phenomenon may be avoided by applying a clear varnish.

Film thicknesses/thinning: The type and amount of thinner depend on application conditions, application method, temperature, ventilation, and substrate. THINNER 08080 is recommended in general.
Airless spray: 5-10% thinning is recommended. Under extreme conditions up to more than 20% may be necessary to obtain satisfactory film formation.
Electrostatic spray: 10% thinning is recommended. Contact VERNA for more information.
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: 40-75 micron/1.6-3 mils.

Shades: This product is available in several aluminium pigmented shades with different volume solids content. Contact VERNA for more information.

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



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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, medium					
Surface temperature:	-10°C (14°F)		0°C (32°F)		20°C (68°F)	
	Min	Max	Min	Max	Min	Max
VERNATHANE	30 h	None	18 h	None	6 h	None

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

This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" available. 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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