

05140: BASE 05149: CURING AGENT 95370

Description: HEMPEL'S DIAMOND VARNISH 05140 is a clear non-yellowing two-component polyurethane varnish. It gives a hard, durable, glossy long-lasting finish. Good resistance to weathering, abrasion and chemicals.

Recommended use: For use on new wood as well as on previously varnished wood, interior and exterior, above the waterline. Not recommended for carvel or clinker built wooden hulls.

Availability: Part of European Yacht assortment. Local availability subject to confirmation.

PHYSICAL CONSTANTS:

Shade nos/Colours: 00000/ Transparent
Finish: High-gloss
Volume solids, %: 50 ± 1
Theoretical spreading rate: 12.5 m²/l [501.2 sq.ft./US gallon] - 40 micron/1.6 mils
Flash point: 32 °C [89.6 °F]
Specific gravity: 1 kg/litre [8.7 lbs/US gallon]
Dry to touch: 8 hour(s) 20°C/68°F
16 hour(s) 10°C/50°F
Dry to sand: 24 hour(s) 20°C/68°F
48 hour(s) 10°C/50°F
Fully cured: 7 day(s) 20°C/68°F
14 day(s) 10°C/50°F
VOC content: 448 g/l [3.7 lbs/US gallon]
Shelf life: 3 years 25°C/77°F

The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.

APPLICATION DETAILS:

Version, mixed product: **05140**

Mixing ratio: BASE 05149: CURING AGENT 95370
2 : 1 by volume. Stir the Base, add Curing Agent and mix well.
Allow mixed paint to rest for several minutes before use to allow air bubbles to escape.

Application method: Air spray (HVLP) / Conventional (Gravity feed) / Conventional (Suction feed) / Conventional (Pressure feed) (15-30%) / Brush (max20%)
Fluid tip: 1.2-1.5 mm/ 1.4-1.6 mm/ 1.6-1.8 mm/1.0-1.2 mm
Air pressure: 0.7 bar / 3-4 bar/ 3-4 bar/ 4-6 bar

Thinner (max.vol.): HEMPEL'S THINNER 871 (No 2) 08711 (Brush/Roller): max. 20%.
HEMPEL'S THINNER 851 (No 6) 08511 (Spray): 15-30%

Pot life: 5 hour(s) 20°C/68°F
10 hour(s) 10°C/50°F

Cleaning of tools: HEMPEL'S THINNER 871 (No 2) 08711 or HEMPEL'S THINNER 851 (No 6) 08511

Indicated film thickness, dry: 40 micron [1.6 mils]
Indicated film thickness, wet: 90 micron [3.6 mils]

Overcoat interval, min: 16 hour(s) 20°C/68°F
32 hour(s) 10°C/50°F

Overcoat interval, max: 5 day(s) 20°C/68°F
10 day(s) 10°C/50°F

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.

SURFACE PREPARATION:	<p>Preparation: Always ensure all surfaces are clean, oil free and dry. Clean the surface and remove possible oil and grease with a suitable detergent and sand with dry abrasive paper. Carefully remove dust with fresh water.</p> <p>New wood: Sand and remove all dust. Saturate the dry, clean surface with suitable wood treatment, allow to dry. Plywood: Sand and remove all dust. Seal the dry clean surface with suitable wood sealer. Previously damaged varnished wood: Wood treatment may be necessary. Previously varnished wood: Abrade, clean and dry the surface.</p>
PRODUCT APPLICATION:	<p>Method: Apply first coat of the product thinned with specified HEMPEL'S THINNER: max. 20%. Apply a second coat of the product thinned: max. 10%. Finally apply 3 coats of the product. Add thinner to assist application if necessary. To obtain a smooth surface, sanding between coats is recommended (remove dust).</p> <p>Previously varnished wood: Apply 3 coats of the product.</p>
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. The moisture content in the wood should not exceed: 16%. Do not apply in direct sunlight. In confined spaces provide adequate ventilation during application and drying. Varnishing should be finished: 4-6 hours 20°C/68°F, 8-12 hours 10°C/50°F, at the latest before dewfall.
RECOMMENDED DETERGENT :	HEMPEL'S PRE-CLEAN 67602
PRECEDING COAT:	HEMPEL'S WOOD IMPREG 02362 (for new wood). HEMPEL'S SEALER 05991 (for plywood).
SUBSEQUENT COAT:	None.
REMARKS:	
Stirring:	Stir product well before use..
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. Keep thinning to a minimum to ensure that correct film thickness is obtained. The amount of thinner depends on the application conditions: temperature, ventilation and substrate.
Storage Conditions:	Exposure to air and temperature variances should be avoided. Avoid direct sunlight. Keep containers tightly sealed. Store at temperatures: 5°C/41°F - 35°C/95°F.
Curing agent:	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. Do not fix lid on cans containing mixed product. Store in a cool place.
Overcoating:	If the maximum overcoating interval is exceeded, clean with fresh water and allow to dry. Light abrade and remove all dust prior to repainting. If surface has been contaminated by oils and pollutants, thoroughly remove with suitable detergent, rinse with fresh water and allow to dry. Light abrade and remove all dust prior to repainting.
Note:	HEMPEL'S DIAMOND VARNISH 05140 For professional use only.
ISSUED BY:	HEMPEL A/S 0514000000

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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