



## HEMPEL'S DIAMOND VARNISH 05140

05140: BASE 05149: CURING AGENT 95370

**Description:** HEMPEL'S DIAMOND VARNISH 05140 is a clear non-yellowing two-component polyurethane varnish. It gives a durable, mirror like finish, resistant to weathering.

**Recommended use:** Above the waterline, interior and exterior, on teak, plywood and other wood which does not "work" too much.

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

### PHYSICAL CONSTANTS:

Shade nos/Colours: 00000/ Transparent  
Finish: High-gloss  
Volume solids, %: 51 ± 1  
Theoretical spreading rate: 12.8 m<sup>2</sup>/l [513.3 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: 6 - 8 approx. hour(s) 20°C/68°F or 12-16 hours (10°C/50°F)  
Fully cured: 7 day(s) (20°C/68°F ) or 14 days (10°C/50°F)  
VOC content: 448 g/l [3.7 lbs/US gallon]  
*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  
**Application method:** Conventional spray / Brush/  
08511 (15-30%) / 08711 (5%)

Air spray (HVLP) / Conventional (Gravity feed) / Conventional (Suction feed) / Conventional (Pressure feed)

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 at nozzle / 3-4 bar/ 3-4 bar/ 4-6 bar  
HEMPEL'S THINNER 08511, HEMPEL'S THINNER 08711.

5 approx. hour(s) 20°C/68°F or 10 hours (10°C/50°F)

HEMPEL'S THINNER 08711

Thinner (max.vol.):

Pot life:

Cleaning of tools:

Indicated film thickness, dry:

Indicated film thickness, wet:

Overcoat interval, min:

Overcoat interval, max:

40 micron [1.6 mils]

100 micron [4 mils]

According to specification.

According to specification.

### 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.



## HEMPEL'S DIAMOND VARNISH 05140

### SURFACE PREPARATION:

**New wood (except plywood and teak):** Sanding (remove dust). Apply one coat of the product thinned with: 20-40% HEMPEL'S THINNER 08711. Apply 3 coats of the product. Add thinner to assist application if necessary. For the best results, sand down with a wet fine sandpaper and dust off between coats for a smooth finish.

**Plywood:** Sanding (remove dust). Seal off with HEMPADUR SEALER 05990 (avoid formation of a continuous layer on the surface). Continue as for other types of new wood.

**Teak:** Sanding (remove dust). Degrease the surface thoroughly with a suitable degreaser. Continue as for other types of new wood.

**Previously varnished wood:** Wash surface with suitable cleaning agent. Do not use detergents unless they are removed completely, as otherwise residues can spoil the drying properties and give adhesion problems. Proceed as for new wood. In some cases the antimould treatment and the first thinned coats can be omitted.

**Note:** Ammonia water may discolour oak, mahogany and teak.

### 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. Do not apply in strong sunshine, on hot surfaces or under humid conditions. High relative humidity or condensation within the first 24 hours after application (20°C/68°F) may impair film formation and gloss. The moisture content in the wood should not exceed: 16%. In confined spaces provide adequate ventilation during application and drying.

### SUBSEQUENT COAT:

None.

### REMARKS:

#### Stirring:

When diluting stir carefully, do not shake the can as this will produce air bubbles in the varnish. If only part of the curing agent is to be used, do not remove the lid, but make two holes in the bottom of the can. After use, close the holes tightly with tape. The cans should be opened with care as there may be risk of overpressure, especially in the can containing the curing agent. Do not fix the lid on cans containing mixed paint.

#### Application(s):

If a brush is used, best results are obtained with a flat varnish brush. After mixing let the product rest 5-10 minutes to release the air before applying.

#### Film thicknesses/thinning:

The amount of thinner depends on the application conditions: temperature, ventilation and substrate.

#### Curing agent:

Curing agent reacts with humidity in the air which can render it unfit to use. Do not open can until immediately before use. Even small traces of water in the mixed paint will reduce the pot life and result in film defects.

#### Overcoating intervals:

It is very important that the surface is absolutely clean before overcoating. In case of doubt and/or in case of long recoating intervals it is recommended to sand the old surface.

#### Nota:

**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](http://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.

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.