



## HEMPEL'S VINYL ESTER GF 35910

35910: BASE 35919: CURING AGENT 99410

<b>Description:</b>	HEMPEL'S VINYL ESTER GF 35910 is a two component cold cured vinyl ester/acrylic copolymer, reinforced with glass flakes. Applicable in thick coats by standard heavy duty airless spray equipment.
<b>Recommended use:</b>	As a lining in immersed environments where superior resistance to chemical attack is required, HEMPEL'S VINYL ESTER GF 35910 is suitable for most chemical environments within the pH range of 0 to 13. The product also has excellent resistance to demineralised water and a range of solvents. The product is also suited for aggressive atmospheric and spillage conditions.
<b>Service temperature:</b>	Maximum, dry exposure only: 160°C/320°F In seawater: 95°C/203°F Other liquids. Contact HEMPEL
<b>Availability:</b>	Part of Group Assortment. Local availability subject to confirmation.
<b>PHYSICAL CONSTANTS:</b>	
Shade nos/Colours:	11630 Off-white.
Finish:	Flat
Volume solids, %:	100 see REMARKS overleaf
Theoretical spreading rate:	1.5 m <sup>2</sup> /l [60.2 sq.ft./US gallon] to 650 micron/26 mils
Flash point:	26 °C [78.8 °F]
Specific gravity:	1 kg/litre [8.4 lbs/US gallon]
Dry to touch:	6 hour(s) 20°C/68°F
Fully cured:	4 day(s) 20°C/68°F
VOC content:	294 g/l [2.4 lbs/US gallon]
Shelf life:	6 months (20°C/68°F) from time of production. Shelf life is reduced at storage temperatures above 20°C/68°F. According to separate APPLICATION INSTRUCTIONS <i>The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.</i>
<b>APPLICATION DETAILS:</b>	
<b>Version, mixed product:</b>	<b>35910</b>
Mixing ratio:	BASE 35919: CURING AGENT 99410 98:2 by volume
Application method:	Airless spray / Brush / Roller According to separate APPLICATION INSTRUCTIONS
Pot life:	45 minute(s) 20°C/68°F. According to separate APPLICATION INSTRUCTIONS
Nozzle orifice:	0.03 to 0.06 " Reversible
Nozzle pressure:	275 bar [3987.5 psi] (Airless spray data are indicative and subject to adjustment)
Cleaning of tools:	According to separate APPLICATION INSTRUCTIONS. Recommended use: styrene or methyl ethyl ketone .
Indicated film thickness, dry:	650 micron [26 mils]
Indicated film thickness, wet:	725 micron [29 mils] see REMARKS overleaf.
Recoat interval, min:	According to separate APPLICATION INSTRUCTIONS
Recoat interval, max:	According to separate APPLICATION INSTRUCTIONS
<b>Safety:</b>	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 VINYL ESTER GF 35910

### SURFACE PREPARATION:

**New steel:** Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Minimum surface profile corresponding to Rugotest No. 3, BN11a, Keane-Tator Comparator, 5.5 G/S, or ISO Comparator Coarse (G) - or as per specification for the subsequent coat(s). After blasting, clean the surface carefully from abrasives and dust.

**Repair and maintenance:** Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. On pit-corroded surfaces, excessive amounts of salt residues may call for high pressure water jetting, wet abrasive blasting, alternatively dry abrasive blasting, high pressure fresh water blasting, drying, and finally dry abrasive blasting again.

**Galvanized, Zinc primed steel etc.:** Metallic zinc inhibits the curing process - the product is not compatible with galvanized steel or other zinc coated substrates. Steel primed with zinc dust containing pre-fabrication primers must be re-blasted to min. Sa 2½-3 to remove all traces of zinc.

### APPLICATION CONDITIONS:

Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. Use only where application and curing can proceed at temperatures above: 10°C/50°F. Maximum relative humidity: 85%. In-can temperature of the paint should preferably be below 25°C/77°F and above 15°C/59°F. RETARDER 99190 should be added when application temperatures exceed 25°C/77°F. In confined spaces provide adequate ventilation during application and drying. See separate APPLICATION INSTRUCTIONS

### PRECEDING COAT

None.

### SUBSEQUENT COAT:

None. Recommended systems are: HEMPEL'S VINYL ESTER GF 35910

### REMARKS:

#### 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 recoating interval. Normal range dry is: 500-1200 micron/20-48 mils per coat.

#### Volume solids, %:

Theoretically, the products contains 100% solid. Depending on the application and curing conditions some of the volatile reactants may evaporate. Furthermore, the curing process is accompanied by a contraction.

These two factors result in a "theoretical" volume solids of 90% and a spreading rate of 1.4 m<sup>2</sup>/l at 650 micron (56 sq.ft./US gallon).

By unfavourable application conditions, higher losses may result in a practical spreading rate of approximately 1.2 m<sup>2</sup>/l at 650 micron (49 sq.ft./US gallon).

#### Note:

**HEMPEL'S VINYL ESTER GF 35910 For professional use only.**

#### ISSUED BY:

HEMPEL A/S

3591011630

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.