

# HEMPEL'S UNI-PRIMER\* 13140

<b>Description:</b>	HEMPEL'S UNI-PRIMER 1314 is a quick-drying, versatile, one-component, modified epoxy ester primer with zinc phosphate rust-inhibiting pigments.
<b>Recommended use:</b>	As a versatile primer for steel work in mild to medium corrosive environment. It provides the possibility of reducing the number of primers for on-board maintenance. Do not use exterior on inorganic zinc. Not suited for immersion. Also recommended as a primer in conventional paint systems on newbuildings.
<b>Service temperature:</b>	Maximum, dry: 140°C/284°F (not valid if recoated with HEMPATEX).
<b>Approvals:</b>	Approved as a low flame spread material by German and Japanese authorities.
<b>Availability:</b>	Subject to confirmation.

## PHYSICAL CONSTANTS:

Colours/Shade nos:	Light grey/12170	Red/51320
Finish:	Flat	Flat
Volume solids:	41%	42%
Theoretical spreading rate:	8.2 m <sup>2</sup> /litre - 50 micron 329 sq.ft./US gallon - 2 mils	8.4 m <sup>2</sup> /litre - 50 micron 337 sq.ft./US gallon - 2 mils
Flash point:	30°C/86°F	30°C/86°F
Specific gravity:	1.4 kg/litre - 11.7 lbs/US gallon	1.4 kg/litre - 11.7 lbs/US gallon
Surface dry:	¾ (approx.) hr at 20°C/68°F (ISO 1517)	¾ (approx.) hr at 20°C/68°F (ISO 1517)
Dry to touch:	2 (approx.) hours at 20°C/68°F	2 (approx.) hours at 20°C/68°F
V.O.C.:	517 g/litre - 4.3 lbs/US gallon	513 g/litre - 4.3 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:

Application method:	Airless spray	Air spray	Brush/Roller
Thinner (max.vol.):	0808 (5%)	0808 (10%)	0808 (10%)
Nozzle orifice:	.019"- .023"		
Nozzle pressure:	150 bar/2200 psi (Airless spray data are indicative and subject to adjustment)		
Cleaning of tools:	HEMPEL'S THINNER 0808		
Indicated film thickness, dry:	50 micron/2 mils (See REMARKS overleaf)		
Indicated film thickness, wet:	125 micron/5 mils		
Recoat interval, min:	See REMARKS overleaf		
Recoat interval, max:	See REMARKS overleaf		

## 2. HEMPEL'S UNI-PRIMER 13140

SURFACE PREPARATION:	<p><b>New steel:</b> Abrasive blasting to minimum Sa 2½, SSPC-SP 10, is recommended. A suitable zinc-free or low-zinc shopprimer may be used for temporary protection if required. All damage of shopprimer and contamination from storage and fabrication should be thoroughly cleaned prior to final painting. For repair and touch-up use HEMPEL'S UNI-PRIMER 1314.</p> <p><b>Maintenance:</b> Remove oil and grease etc. with suitable detergent. Remove salt and other contaminants by (high pressure) fresh water cleaning. Remove all rust and other loose material by abrasive blasting or power tool cleaning. Feather edges to sound and intact areas. Dust off residues. Touch up to full film thickness.</p>
APPLICATION CONDITIONS:	<p>Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation.</p> <p>In confined spaces provide adequate ventilation during application and drying.</p>
SUBSEQUENT COAT:	<p>HEMPALIN or similar alkyds or HEMPATEX systems according to specification.</p> <p>Recoating with other qualities, see REMARKS below.</p>
REMARKS:	
Film thicknesses:	<p>May be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate and may influence amount of thinning necessary, drying time, and recoating interval. Normal range is 25-75 micron/1-3.0 mils.</p>
Recoating:	<p>Recoating intervals related to later conditions of exposure: (50 micron/2 mils dry film thickness of HEMPEL'S UNI-PRIMER 1314)</p>

	Minimum		Maximum	
Steel temperature	20°C/68°F		20°C/68°F	
Recoated with	Atmospheric		Atmospheric	
	Mild	Medium	Mild	Medium
HEMPALIN 1)	1 hr	2 hrs	None	3 days
HEMPATEX 2)	4 hrs	6 hrs	None	None

- 1) Dissolved in white spirit only
- 2) Dissolved in aromatic solvents

Recoating with epoxy and P.U.:	<p>If the maximum recoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.</p> <p>Recoating with HEMPADUR and HEMPETHANE is possible, but should be done with as thin layers as possible to minimize the risk of lifting. Furthermore, in this case - used as a "bridge coating" - it is recommended to apply HEMPEL'S UNI- PRIMER 1314 in 25 micron/1 mil dry film thickness only. Make a test patch to secure full compatibility with the old paint system.</p> <p>Minimum recoating interval (20°C/68°F) is 48 hours, maximum none.</p>
Notes:	<p>Before recoating after exposure in contaminated environment, clean surface thoroughly with high pressure fresh water hosing and allow to dry.</p>

### HEMPEL'S UNI-PRIMER 1314 is for professional use only.

SAFETY:	<p>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.</p>
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Product data are subject to change without notice and become void five years from the date of issue.

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