

<b>Description:</b>	HEMPEL'S UNI-PRIMER 13140 is a quick-drying, one-component primer with rust-inhibiting pigments.
<b>Recommended use:</b>	As a versatile primer on steel and metal surfaces for HEMPALIN or HEMPATEX in mild to medium corrosive atmospheric environment. It provides the possibility of reducing the number of primers for maintenance.
<b>Service temperature:</b>	Maximum, dry exposure only: 140°C/284°F
<b>Certificates/Approvals:</b>	Complies with Section 175.300 of the Code of Federal Regulations Title 21 – Dry Foodstuff. Consult Hempel for details. Tested for non-contamination of grain cargo at the Newcastle Occupational Health & Hygiene, Great Britain. Approved as a low flame spread material. According to IMO resolution MSC 61 (67): France Spain EC-type Examination Certificate: France Spain
<b>Availability:</b>	Part of Group Assortment. Local availability subject to confirmation.
<b>PHYSICAL CONSTANTS:</b>	
Shade nos/Colours:	11320* / Grey.
Finish:	Flat
Volume solids, %:	42 ± 1
Theoretical spreading rate:	8.4 m <sup>2</sup> /l [336.8 sq.ft./US gallon] - 50 micron/2 mils
Flash point:	30 °C [86 °F]
Specific gravity:	1.3 kg/litre [11 lbs/US gallon]
Surface-dry:	15 minute(s) 20°C/68°F
Through-dry:	30 minute(s) 20°C/68°F
VOC content:	518 g/l [4.3 lbs/US gallon]
Shelf life:	5 years (25°C/77°F) from time of production. <i>*other shades according to assortment list.</i>
	<i>The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.</i>
<b>APPLICATION DETAILS:</b>	
Application method:	Airless spray / Air spray / Brush
Thinner (max.vol.):	08080 (5%) / 08080 (10%) / 08080 (10%)
Nozzle orifice:	0.019 - 0.023 "
Nozzle pressure:	150 bar [2175 psi] (Airless spray data are indicative and subject to adjustment)
Cleaning of tools:	HEMPEL'S THINNER 08080
Indicated film thickness, dry:	50 micron [2 mils] see REMARKS overleaf
Indicated film thickness, wet:	125 micron [5 mils]
Overcoat interval, min:	see REMARKS overleaf
Overcoat interval, max:	see REMARKS overleaf
<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.

**SURFACE PREPARATION:** **New steel:** Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Abrasive blasting to Sa 2½ (ISO 8501-1:2007). For temporary protection, if required, use a suitable shopprimer. 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 13140.  
**Other metals and light alloys:** Very careful degreasing followed by fresh water hosing to remove all contamination.  
**Repair and maintenance:** Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Remove all rust and loose material by wet or dry abrasive blasting or power tool cleaning. Feather edges to sound and intact areas. Dust off residues. Touch up bare spots to full film thickness.

**APPLICATION CONDITIONS:** Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.

**SUBSEQUENT COAT:** According to specification. Recommended systems are: HEMPALIN or HEMPATEX

**REMARKS:**

**Substrate:** Smooth metal surfaces and zinc-coated steel are only relevant as substrate in case of later mild exposure conditions.

**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. Normal range dry is: 25-80 micron/1-3.2 mils

**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					
	10°C (50°F)		20°C (68°F)		30°C (86°F)	
	Min	Max	Min	Max	Min	Max
HEMPALIN	4 h	5½ d	2 h	3 d	90 m	54 h
HEMPATEX	12 h	None	6 h	None	5 h	None

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

**Overcoating with epoxy and P.U.:** Overcoating with HEMPADUR and HEMPATANE 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 13140 in 25 micron/1 mil dry film thickness only. Make a test patch to secure full compatibility between the old paint system and the new paint system. Minimum overcoating interval (20°C/68°F) is 48 hours, maximum none.

**Note:** **HEMPEL'S UNI-PRIMER 13140 For professional use only.**

**ISSUED BY:** HEMPEL A/S

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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.

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