



Product Data

HEMPEL'S UNI-PRIMER® 13140

Description: HEMPEL'S UNI-PRIMER 13140 is a quick-drying, one-component, modified epoxy ester primer with zinc phosphate rust-inhibiting pigments.

Recommended use: 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.

Service temperature: Maximum, dry exposure only: 140°C/284°F (or as dictated by subsequent HEMPATEX topcoats).

Certificates/Approvals: Approved as a low flame spread material by the French and Spanish authorities according to IMO resolution MSC 61 (67). Has a French and Spanish EC-type Examination Certificate. Complies with EU Directive 2004/42/EC, subcategory i (see REMARKS overleaf).

Availability: Part of Group Assortment. Local availability subject to confirmation.

PHYSICAL CONSTANTS:

Colours/Shade nos: Light grey/12170 - Red/51320
Finish: Flat
Volume solids, %: 42 ± 1
Theoretical spreading rate: 8.4 m²/litre - 50 micron
337 sq.ft./US gallon - 2 mils
Flash point: 30°C/86°F
Specific gravity: 1.4 kg/litre - 11.7 lbs/US gallon
Surface dry: ¾ (approx.) hr at 20°C/68°F (ISO 1517)
Dry to touch: 2 (approx.) hours at 20°C/68°F
V.O.C.: 520 g/litre - 4.3 lbs/US gallon

The physical constants stated are nominal data according to the HEMPEL Group's approved formulas. They are subject to normal manufacturing tolerances and where stated, being standard deviation according to ISO 3534-1.

APPLICATION DETAILS:

Application method:	Airless spray	Air spray	Brush/Roller
Thinner (max.vol.):	08080 (5%)	08080 (10%)	08080 (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 08080		
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		

Safety: 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. Avoid inhalation, avoid contact with skin and eyes, and do not swallow. Take precautions against possible risks of fire or explosions as well as protection of the environment. Apply only in well ventilated areas.



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SURFACE PREPARATION: **New steel:** Abrasive blasting to minimum Sa 2½ 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 13140.

Smooth metal surfaces: Very careful degreasing and removal of other contaminants.

Maintenance: Remove oil and grease etc. with suitable detergent. Remove salt and other contaminants by (high pressure) fresh water hosing. 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.

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: HEMPALIN or similar alkyds or HEMPATEX systems according to specification.
Recoating with other qualities, see REMARKS below.

REMARKS:

VOC - EU directive 2004/42/EC:

	As supplied	10 vol. % thinning	Limit phase I, 2007	Limit phase II, 2010
VOC in g/l	520	555	600	500

VOC:

For VOC of other shades, please refer to Safety Data Sheet.

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

Film thicknesses: 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 25-80 micron/1-3.2 mils.

Recoating: Recoating intervals related to later conditions of exposure:
(50 micron/2 mils dry film thickness of HEMPEL'S UNI-PRIMER 13140)

	Minimum		Maximum	
	20°C/68°F		20°C/68°F	
Recoated with	Atmospheric		Atmospheric	
	Mild	Medium	Mild	Medium
HEMPALIN ¹⁾	1 hour	2 hours	None	3 days
HEMPATEX, HEMPALIN ²⁾	4 hours	6 hours	None	None

¹⁾Dissolved in white spirit only

²⁾Dissolved in aromatic solvents

If the maximum recoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.

Recoating with epoxy and P.U.: Recoating 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 recoating interval (20°C/68°F) is 48 hours, maximum none.

Notes: Before recoating after exposure in contaminated environment, clean surface thoroughly with high pressure fresh water hosing and allow drying.

HEMPEL'S UNI-PRIMER 13140 is for professional use only.

ISSUED BY: HEMPEL A/S - 1314012170C0006

This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" in the HEMPEL Book.

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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Product data are subject to change without notice and become void five years from the date of issue.