

# Product Data

## Hempaprime Multi 500 Summer



### Hempaprime Multi 500 45950: BASE 45959: CURING AGENT 95090

<b>Description:</b>	Hempaprime Multi 500 is a two-component, fast drying, high solids epoxy paint. It provides hard wearing and long lasting barrier protection in coating systems for severe corrosive environments.
<b>Recommended use:</b>	Hempaprime Multi 500 is recommended as a high-build, intermediate coat in high performance coating systems where fast handling and short over-coating times are required. Due to its fast drying - up to twice as fast as comparable, competitive products - the product is excellent for projects where fast throughput is key. The product can also be used as self-priming, surface tolerant coat and a finishing coat in heavy-duty coating systems. Suited for application down to 10°C/50°F
<b>Features:</b>	<p>The product is available in several MIO shades such as 18021 and 18061 both with 80% MIO content (reduced volume solid content to 77%).</p> <ul style="list-style-type: none"><li>- Fast over-coating</li><li>- Crack resistant in high DFTs</li><li>- Low VOC</li><li>- Ready to use - optimised application properties</li><li>- Surface tolerant product</li></ul>
<b>Service temperature:</b>	Maximum, dry exposure only: 120°C/248°F
<b>Certificates/Approvals:</b>	
<b>Availability:</b>	Globally available
<b>PHYSICAL CONSTANTS:</b>	
Shade nos/Colours:	50630*/ Red . The product is also available in a Micaceous Iron Oxide (MIO) pigmented shade (Shade no. 12430 – reddish grey).
Finish:	Semi-gloss
Volume solids, %:	85 ± 2
Theoretical spreading rate:	5.7 m <sup>2</sup> /l [228.6 sq.ft./US gallon] -150 micron/6 mils
Flash point:	25 °C [77 °F]
Specific gravity:	1.4 kg/litre [12 lbs/US gallon]
Surface-dry:	3 hour(s) 20°C/68°F
Through-dry:	4 hour(s) 20°C/68°F
VOC content:	196 g/l [1.6 lbs/US gallon]
Shelf life:	2 year for BASE and 2 years (25°C/77°F) for CURING AGENT from time of production. <i>*other shades according to assortment list.</i> <i>*Wide range of colours available via Hempel's MULTI-TINT system.</i> <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>Hempaprime Multi 500 45950</b>
Mixing ratio:	BASE 45959: CURING AGENT 95090 4:1 by volume
Application method:	Airless spray /Brush /Roller
Thinner (max.vol.):	Thinning is normally not necessary. depending on purpose. Usually less than: 5% HEMPEL'S THINNER 08450 (see REMARKS overleaf)
Pot life:	1 hour(s) 20°C/68°F
Nozzle orifice:	0.019 - 0.023 "
Nozzle pressure:	225 bar [3262.5 psi] (Airless spray data are indicative and subject to adjustment)
Cleaning of tools:	HEMPEL'S TOOL CLEANER 99610, HEMPEL'S THINNER 08450
Indicated film thickness, dry:	150 micron [6 mils] (see REMARKS overleaf)
Indicated film thickness, wet:	175 micron [7 mils]
Overcoat interval, min:	According to specification.
Overcoat interval, max:	According to specification.
<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:	<p><b>New steel:</b> Abrasive blasting to minimum Sa 2½ (ISO 8501-1:2007) with a surface profile corresponding to Rugotest No. 3, N9a to N10, preferably BN9a to BN10, Keane-Tator Comparator, 2.0 G/S or ISO Comparator, Medium (G).</p> <p><b>Zinc silicate painted or spray-metallized surfaces:</b> Remove oil and grease, etc. with suitable detergent. Remove salt and other contaminants by (high pressure) fresh water cleaning. Zinc salts (white rust) must be removed by high pressure hosing combined with rubbing with a stiff nylon brush if necessary. It is recommended to recoat spray-metallized surfaces as soon as possible to avoid possible contamination.</p> <p><b>Repair and maintenance:</b> Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Clean damaged areas thoroughly by power tool cleaning to minimum St 2 (spot-repairs) or by abrasive blasting to min. Sa 2, preferably to Sa 2½ (ISO 8501-1:1988). Improved surface preparation will improve the performance of the product. As an alternative to dry cleaning, water jetting to sound, well adhering coat and/or to steel. Intact coat must appear with roughened surface after the water jetting. By water jetting to steel, cleanliness shall be: Wa 2 -Wa 2½ (atmospheric exposure) / minimum Wa 2½ (immersion) (ISO 8501-4:2006). Acceptable flash-rust degree before application: maximum M (atmospheric exposure) / M, preferably L (immersion) (ISO 8501-4:2006).</p> <p>Feather edges to sound and intact areas. Dust off residues. Touch up to full film thickness. On pit-corroded surfaces, excessive amounts of salt residues may call for high pressure water jetting, wet abrasive blasting or, alternatively, dry abrasive blasting, high pressure fresh water hosing, drying, and finally dry abrasive blasting again.</p>
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. The optimal paint temperature for proper mixing, pumping and spraying is 20°C/68°F. In confined spaces provide adequate ventilation during application and drying.
PRECEDING COAT:	None, or as per specification.
SUBSEQUENT COAT:	None, or as per specification.
REMARKS:	
Colours/Colour stability:	Has a tendency to yellow after application. This will have no influence on the performance.
Weathering/service temperatures:	The natural tendency of epoxy coatings to chalk in outdoor exposure and to become more sensitive to mechanical damage and chemical exposure at elevated temperatures is also reflected in this product.
Application(s):	Can be used on top of Zinc silicate or on metallised area by use of the flash coat technique.
Application equipment:	Spray equipment: It is recommended to use heavy airless spray equipment with a pump transmission rate of 60:1 (approximately), and a theoretical output of min. 12 litres per minute. Longer spray hoses and/or bigger spray nozzles will require higher capacity of the spray equipment to maintain a proper spray fan atomisation.
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 is: 100 micron/4 mils - 225micron/9mils. Overthickness on overlapping areas, corners, welding seams, etc should be less than: 400 micron/16 mils

# Product Data

## Hempaprime Multi 500 Summer



**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, mild / Atmospheric, medium					
	10°C (50°F)		20°C (68°F)		30°C (86°F)	
Surface temperature:	Min	Max	Min	Max	Min	Max
Hempadur/Hempaprime	7 h	Ext.	3 h	Ext.	2 h	Ext.
Hempathane	7 h	Ext.	3 h	Ext.	2 h	Ext.
Environment	Atmospheric, severe					
Hempadur/Hempaprime	7 h	48 d	3 h	21 d	2 h	14 d
Hempathane	7 h	16 d	3 h	7 d	2 h	5 d

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

**Overcoating intervals:**

**Extended overcoating intervals:**

Before recoating, ensure that the surface is clean of any contamination including invisible salt and other harmful chemical substances and degraded layers from UV exposure.

**Note:**

**Hempaprime Multi 500 Summer For professional use only.**

**ISSUED BY:**

HEMPEL A/S

4595050630

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.