

# Product Data

## HEMPADUR SPEED-DRY ZP 500



17500

### HEMPADUR SPEED-DRY ZP 500: BASE 17509: CURING AGENT 98415

<b>Description:</b>	HEMPADUR SPEED-DRY ZP 500 is a two-component high build epoxy paint which combines a high volume solids with a short drying time and optimised properties for in-shop application of full coating systems . Contains zinc phosphate for better corrosion protection.
<b>Recommended use:</b>	HEMPADUR SPEED-DRY ZP 500 is suitable for the protection of new-build and maintained steel structures where fast dry to handle and short overcoating times are required, such as in industrial halls, stadiums, exhibition halls, airports, bridges, power plants, refineries, chemical and petrochemical plants, with a wide range of anti-corrosive coating systems.
<b>Service temperature:</b>	Maximum, dry exposure only: 140°C/284°F
<b>Certificates/Approvals:</b>	Complies with EU Directive 2004/42/EC: subcategory j.
<b>Availability:</b>	Subject to confirmation.

### PHYSICAL CONSTANTS:

Shade nos/Colours:	17330* / Grey. (see REMARKS overleaf)
Finish:	Flat
Volume solids, %:	75 ± 1
Theoretical spreading rate:	6 m <sup>2</sup> /l [240.6 sq.ft./US gallon] - 125 micron/5 mils
Flash point:	26 °C [78.8 °F]
Specific gravity:	1.6 kg/litre [13.2 lbs/US gallon]
Surface-dry:	1 approx. hour(s) 20°C/68°F
Dry to handle:	3.5 approx. hour(s) 20°C/68°F
Fully cured:	7 day(s) 20°C/68°F
VOC content:	235 g/l [2 lbs/US gallon]

*\*other shades according to assortment list.*

*The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.*

### APPLICATION DETAILS:

<b>Version, mixed product:</b>	<b>HEMPADUR SPEED-DRY ZP 500</b>
Mixing ratio:	BASE 17509: CURING AGENT 98415 2 : 1 by volume Stir CURING AGENT before adding it to the BASE.
Application method:	Airless spray / Brush
Thinner (max.vol.):	HEMPEL'S THINNER 08450 <10% depending on purpose (see REMARKS overleaf)
Pot life:	1.5 hour(s) 20°C/68°F
Nozzle orifice:	0.019 - 0.021 "
Nozzle pressure:	225 bar [3262.5 psi] (Airless spray data are indicative and subject to adjustment)
Cleaning of tools:	HEMPEL'S TOOL CLEANER 99610
Indicated film thickness, dry:	125 micron [5 mils] (see REMARKS overleaf)
Indicated film thickness, wet:	175 micron [7 mils]
Overcoat interval, min:	see REMARKS overleaf
Overcoat interval, max:	see REMARKS overleaf

**Safety:** 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.

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**SURFACE PREPARATION:** **New steel:** 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: HEMPADUR SPEED-DRY ZP 500.  
**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 to full film thickness. After wet abrasive blasting hose down the surface with fresh water and allow drying.

**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/14°F. The temperature of the paint itself should be: 15-25°C/59-77°F. In confined spaces provide adequate ventilation during application and drying. Thinning may be necessary in the case of very long spray hoses and/or paint temperatures below: 15°C/59°F. This will cause lower film build and longer drying time.

**PRECEDING COAT:** According to specification. HEMPADUR SPEED-DRY ZP 500, HEMPADUR ZINC 17360, HEMPADUR AVANTGUARD 750, HEMPADUR AVANTGUARD 550. It is important that the surface is completely clean to ensure the adhesion. Any oil, grease, etc. to be removed by suitable detergent.

**SUBSEQUENT COAT:** None, or as per specification. Recommended systems are: HEMPATHANE, HEMPADUR.

**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):** **Irregular surfaces:** Special care should be taken in relation to irregular surfaces (welding seams, undercuts etc.) as application with an excessive film thickness may result in cracking especially on such areas. Excessive film thickness per coat is typically more than: 400 micron /16 mils.

**Film thicknesses/thinning:** Recommended dry film thickness: 70 - 200 micron/ 2.8 - 8 mils. Dry film thicknesses should not exceed: 250 micron / 10 mils. Excessive film thickness must be avoided.

**Thinning:**

Selection of proper thinner is related to application conditions. Recommended systems are: HEMPEL'S THINNER 08450. HEMPEL'S THINNER 08700 may be used alternatively depending on local conditions.

**Shades:** The product is also available in a Micaceous Iron Oxide (MIO) pigmented shade (Shade no. 12430 – reddish grey).

**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 (14°F)		0°C (32°F)		20°C (68°F)	
	Min	Max	Min	Max	Min	Max
HEMPADUR	18 h	Ext.	9 h	Ext.	2 h	Ext.
HEMPATHANE	18 h	90 d	9 h	45 d	2 h	10 d

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

**Overcoating note:** In case of general maintenance involving epoxy systems of high total dry film thickness, the minimum overcoating interval may advantageously be doubled up. For mild atmospheric exposure overcoating with HEMPADUR and HEMPATHANE qualities has no maximum. For other qualities please contact HEMPEL. A completely clean surface is mandatory to ensure intercoat adhesion, especially at long overcoating intervals. Any dirt, oil, grease, and other foreign matter must be removed with suitable detergent followed by (high pressure) fresh water cleaning. Salts to be removed by fresh water hosing. **Any degraded surface layer, as a result of a long exposure period, must be removed as well.**

**Note:** **HEMPADUR SPEED-DRY ZP 500**  
 17500 **For professional use only.**

**ISSUED BY:** HEMPEL A/S 1750017330

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.