

Product Data

HEMPEL'S ZINC PRIMER 16490



Description:	HEMPEL'S ZINC PRIMER 16490 is a one-component, high molecular weight, quick drying, phenoxy coating with a high content of zinc.
Recommended use:	As a protective primer on steel in severely corrosive environment. For repair of GALVOSIL and other zinc rich coatings. For repair of galvanized steel. In compliance with SSPC-Paint 20, type 2, level 3.
Service temperature:	Maximum, dry exposure only: 120°C/248°F
Availability:	Part of Group Assortment. Local availability subject to confirmation.
PHYSICAL CONSTANTS:	
Shade nos/Colours:	19840 / Metal grey
Finish:	Flat
Volume solids, %:	33 ± 1
Theoretical spreading rate:	9.4 m ² /l [376.9 sq.ft./US gallon] - 35 micron/1.4 mils
Flash point:	7 °C [44.6 °F]
Specific gravity:	1.7 kg/litre [14 lbs/US gallon]
Surface-dry:	0.25 approx. hour(s) 20°C/68°F
Dry to touch:	30 minute(s) 20°C/68°F
VOC content:	571 g/l [4.7 lbs/US gallon]
Shelf life:	12 months (20°C/68°F) from time of production. <i>The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.</i>
APPLICATION DETAILS:	
Application method:	Airless spray / Brush
Thinner (max.vol.):	08450 (5%) / 08450 (5%)
Nozzle orifice:	0.019 - 0.021 "
Nozzle pressure:	200 bar [2900 psi] (Airless spray data are indicative and subject to adjustment)
Cleaning of tools:	HEMPEL'S THINNER 08450 or HEMPEL'S TOOL CLEANER 99610
Indicated film thickness, dry:	35 micron [1.4 mils]
Indicated film thickness, wet:	100 micron [4 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 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).
Repair of galvanized steel or zinc-rich coating: 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 abrasive blasting or power tool cleaning. Dust off residues.

APPLICATION CONDITIONS: Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. It can be applied at low temperatures, but the drying time will be increased. At the freezing point and below be aware of the risk of ice on the surface, which will hinder adhesion. In confined spaces provide adequate ventilation during application and drying.

PRECEDING COAT: None.

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

REMARKS: **Note:** Due to a risk of corrosion from possible moisture penetration, many experts advise against the use of zinc primers behind high temperature insulation.

Film thicknesses/thinning: May be specified in another film thickness than indicated depending on purpose and area of use. Normal range is: 25-35 micron/1.0-1.4 mils

Storage Conditions: Care should be taken to avoid water contamination in the cans to prevent gelling or gassing.

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
16490	55 m	None	30 m	None	25 m	None

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

Overcoating note: If the coating has been exposed to the atmosphere for some time, the surface should be thoroughly hosed down and scrubbed with a stiff brush to remove "white rust" (zinc corrosion products) in addition to the usual cleaning for dirt, oil, grease, etc. Allow surface to dry before recoating. When overcoated, the entire paint system must be through dry and fully cured before full mechanical strength is obtained.

Note: **HEMPEL'S ZINC PRIMER 16490 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. 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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