



HEMPEL'S GALVOSIL 15790

15790: LIQUID 15798: HEMPEL'S ZINC METAL PIGMENT 97170

Description:	HEMPEL'S GALVOSIL 15790 is a two-component, medium-zinc, solvent-borne, selfcuring inorganic zinc silicate coating. Applicable by airless spray.
Recommended use:	As a general purpose rust-preventing primer in paint systems for long-life protection of steel exposed to moderately to severely corrosive environment. In compliance with SSPC-Paint 20, type 1, level 3
Service temperature:	Maximum service temperature is depending on the subsequent coat. see REMARKS overleaf
Availability:	Not included in Group Assortment. Availability subject to special agreement.
PHYSICAL CONSTANTS:	
Shade nos/Colours:	19840 / Metal grey
Finish:	Flat
Volume solids, %:	64 ± 1
Theoretical spreading rate:	12.8 m ² /l [513.3 sq.ft./US gallon] - 50 micron/2 mils
Flash point:	14 °C [57.2 °F]
Specific gravity:	2.2 kg/litre [18.4 lbs/US gallon]
Dry to touch:	0.5 approx. hour(s) 20°C/68°F (65% RH)
Fully cured:	16 approx. hour(s) 20°C/68°F (65% RH)
VOC content:	557 g/l [4.6 lbs/US gallon]
Shelf life:	6 months for the LIQUID and 3 years for HEMPEL'S ZINC METAL PIGMENT (stored in closed container) (25°C/77°F) from time of production. Shelf life is dependent on storage temperature. Shelf life is reduced at storage temperatures above 25°C/77°F. Do not store above 40°C/104°F. Shelf life is exceeded if the liquid is gelled or if the mixed product forms gels before application. <i>The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.</i>
APPLICATION DETAILS:	
Version, mixed product:	15790
Mixing ratio:	LIQUID 15798: HEMPEL'S ZINC METAL PIGMENT 97170 1 : 1 by weight (by volume - see REMARKS overleaf)
Application method:	Airless spray / Air spray / Brush (touch up)
Thinner (max.vol.):	[08700 (30%) and/or 0870M (30%) see REMARKS overleaf]/ 08700 (50%) / 08700 (10%)
Pot life:	4 hour(s) 20°C/68°F
Nozzle orifice:	0.019 - 0.023 "
Nozzle pressure:	100 bar [1450 psi] (Airless spray data are indicative and subject to adjustment)
Cleaning of tools:	HEMPEL'S THINNER 08700
Indicated film thickness, dry:	50 micron [2 mils] (see REMARKS overleaf)
Indicated film thickness, wet:	75 micron [3 mils]
Overcoat interval, min:	According to separate APPLICATION INSTRUCTIONS
Overcoat interval, max:	According to separate APPLICATION INSTRUCTIONS
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:

Remove oil and grease with suitable detergent. Entire area to be (high pressure) fresh water cleaned in order to remove salts and other contaminants. Abrasive blasting with sharp abrasive to minimum Sa 2½ (ISO 8501-1:2007) with a surface profile equivalent to Rugotest No. 3, BN10, Keane-Tator Comparator, min. 3.0 G/S, or ISO Comparator rough Medium (G). In case of new steel to be exposed to no more than medium aggressive (industrial) environment and without any extraordinary demands to lifetime, a surface preparation degree of SSPC-SP6 may suffice.
See separate APPLICATION INSTRUCTIONS

APPLICATION CONDITIONS:

At temperatures ranging from 0°C/32°F to 40°C/105°F, curing needs minimum 65% relative humidity and is significantly retarded at lower temperatures. (Consult the separate APPLICATION INSTRUCTIONS)

SUBSEQUENT COAT:

According to specification. Overcoating is expected to take place within 6 months after application of the product.

REMARKS:

Note: If used as anticorrosive protection under insulation of high temperature equipment it is very important that NO moisture can penetrate during slow-down periods. This is to avoid the risk of "wet corrosion" when the temperature rises.

Weathering/service temperatures:

The product may be used for high temperature service if overcoated with HEMPEL'S SILICONE ALUMINIUM 56913/56914. In such case it will be resistant to permanent dry temperatures up to 500°C/932°F. In case of cyclic service conditions with regular periods of low and high temperatures it is recommended to keep the maximum temperature below 400°C/752°F.

Stirring:

When mixing part of the content in a can the mixing ratio on volume should be made as follows: 8.5 parts of the BASE and then add HEMPEL'S ZINC METAL PIGMENT up to a total of 10.00 parts by volume.

Film thicknesses/thinning:

Film thicknesses:

If topcoated with a heavy- duty system it is recommended to apply: 50-80 micron / 2-3.2 mils dry film thickness (75-125 micron / 3-5 mils wet.)

For long-term protection without topcoat it is recommended to have a film thickness of: 75 micron/3 mils dry film thickness (100-125 micron/4-5 mils wet.) (Consult the separate APPLICATION INSTRUCTIONS)

High temperature service: Dry film thicknesses should not exceed: 40-50 micron/1.6-2 mils to avoid cracking, especially in cases where service conditions include sudden temperature changes. (The dry film thickness range does not take into account the correction factors for rough surfaces as listed in ISO 19840).

Thinning:

HEMPEL'S THINNER 0870M can be used to accelerate curing.

Relative humidity above 50%: 0870M (max 30%) - Curing time: 8 hour(s) 20°C/68°F.

Relative humidity below 50%: 0870M (max 30%) - Curing time: 20 hour(s) 20°C/68°F.

Overcoating intervals:

Overcoating intervals are strongly dependent on both temperature and humidity. Deviations from the standard conditions may shorten or prolong the overcoating intervals.

Full curing will be obtained after:

3 days - 0°C/32°F, Minimum: 65% RH

36 hours - 10°C/50°F, Minimum: 65% RH

16 hours - 20°C/68°F, Minimum: 65% RH

(A certain degree of curing does take place at temperatures below 0°C/32°F, but at an extremely low speed)

See separate APPLICATION INSTRUCTIONS

Note:

HEMPEL'S GALVOSIL 15790 For professional use only.

ISSUED BY:

HEMPEL A/S

1579019840

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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