

### 15780: LIQUID 15789: HEMPEL'S ZINC METAL PIGMENT 97170/97140

<b>Description:</b>	HEMPEL'S GALVOSIL 15780 is a two-component, medium-zinc, solvent-borne, selfcuring inorganic zinc silicate coating. Applicable by airless spray.  Hempel's Zinc metal pigment 97170 is in full compliance with ISO 3549 and ASTM D520 type I, Hempel's Zinc metal pigment 97140 is additionally in compliance with ASTM D520 type II.
<b>Recommended use:</b>	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 2.
<b>Service temperature:</b>	Resistant to permanent (non-cyclic) dry temperatures as well as occasionally dry peak temperatures up to maximum: 500°C/932°F. It is of advantage to apply a topcoat of HEMPEL'S SILICONE ALUMINIUM 56914 in case of service temperatures above: 400°C/752°F. Resistant to cyclic dry temperatures up to 400°C/752°F.
<b>Certificates/Approvals:</b>	Meets the requirements laid down in ASTM A-490 Class "B" for Slip-Co-efficient and Creep Resistance.
<b>Availability:</b>	Part of Group Assortment. Local availability subject to confirmation.
<b>PHYSICAL CONSTANTS:</b>	
Shade nos/Colours:	19840 / Metal grey
Finish:	Flat
Volume solids, %:	62 ± 1
Theoretical spreading rate:	12.4 m <sup>2</sup> /l [497.2 sq.ft./US gallon] - 50 micron/2 mils
Flash point:	14 °C [57.2 °F]
Specific gravity:	2.4 kg/litre [20 lbs/US gallon]
Surface-dry:	15 minute(s) 20°C/68°F
Through-dry:	20 minute(s) 20°C/68°F
Fully cured:	16 approx. hour(s) 20°C/68°F (65% RH)
VOC content:	442 g/l [3.7 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>
<b>APPLICATION DETAILS:</b>	
<b>Version, mixed product:</b>	<b>15780</b>
Mixing ratio:	LIQUID 15789: HEMPEL'S ZINC METAL PIGMENT 97170/97140 4.1 : 5.9 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
<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.

# Product Data

## HEMPEL'S GALVOSIL 15780



SURFACE PREPARATION:	Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. 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:	The surface must be completely clean and dry at the time of application and its temperature must be above the dew point to avoid condensation. At temperatures ranging from 0°C/32°F to 40°C/105°F, curing needs minimum 50% relative humidity. Curing is retarded at lower temperature and lower humidity. See separate APPLICATION INSTRUCTIONS
SUBSEQUENT COAT:	According to specification.
REMARKS:	
Induction time:	For application at high temperatures, a special thinner is available.
Application(s):	When mixing part of the content in a can the mixing ratio on volume should be made as follows: 8.0 parts of the BASE and then add HEMPEL'S ZINC METAL PIGMENT up to a total of 10.00 parts by volume.
Note:	<b>HEMPEL'S GALVOSIL 15780 For professional use only.</b>
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](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.

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