

### 15700: LIQUID 15709: HEMPEL'S ZINC METAL PIGMENT 97170/97140

<b>Description:</b>	HEMPEL'S GALVOSIL 15700 is a two-component, solvent-borne, self-curing, inorganic zinc silicate with outstanding resistance against weathering and abrasion. It has excellent chemical resistance within the pH range 6-9. Offers cathodic protection of local mechanical damage.  Hempel's Zinc metal pigment 97170 is in full compliance with ISO 3549 and ASTM D520 type II.
<b>Recommended use:</b>	As a general purpose, heavy-duty, rust-preventing primer. As a single, complete coating for long-term protection of steel exposed to moderately to severely corrosive environment and to abrasion. As a tank lining in accordance with the CARGO PROTECTION GUIDE.
<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. Resistant to cyclic dry temperatures up to 400°C/752°F. Further information - see REMARKS overleaf.
<b>Certificates/Approvals:</b>	Tested according to section 175.300 of the Code of Federal Regulations Title 21 – Liquid Foodstuff. Consult Hempel for details. Meet requirements to friction surface class B when tested according to Annex G: "Test to determine slip factor" of EN 1090-2
<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, %:	64 ± 1
Theoretical spreading rate:	12.8 m <sup>2</sup> /l [513.3 sq.ft./US gallon] - 50 micron/2 mils
Flash point:	14 °C [57.2 °F]
Specific gravity:	2.7 kg/litre [22.2 lbs/US gallon]
Surface-dry:	0.5 hour(s) 20°C/68°F (60-75% RH)
Through-dry:	45 minute(s) 20°C/68°F
Fully cured:	16 hour(s) 20°C/68°F and minimum 65% RH (see REMARKS overleaf)
VOC content:	434 g/l [3.6 lbs/US gallon]
Shelf life:	6 months , 25°C/77°F for the LIQUID and 3 years for HEMPEL'S ZINC METAL PIGMENT (stored in closed container) 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 the following temperature: 40°C/105°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>15700</b>
Mixing ratio:	LIQUID 15709: HEMPEL'S ZINC METAL PIGMENT 97170/97140 3.1 : 6.9 by weight
Application method:	Airless spray / Air spray / Brush (touch up)
Thinner (max.vol.):	[08700 and/or 0870M (30%) See separate APPLICATION INSTRUCTIONS ]/ 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 separate APPLICATION INSTRUCTIONS
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.

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 and corresponding PAINTING SPECIFICATION for cargo tanks.
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. In confined spaces provide adequate ventilation during application and drying. See separate APPLICATION INSTRUCTIONS
SUBSEQUENT COAT:	<b>As a tank coating:</b> None, i.e. no other paints are acceptable in combination with the product. Otherwise according to specification.
REMARKS:	Local adjustments: Local conditions (e.g. application equipment, climatic application conditions) may require local adjustments in solvent composition, degree of pre-thinning and degree of pre-hydrolysis for the primer as supplied. As such adjustments may influence flash point, Hempel's quality control system requires separate product numbers and Material safety Data Sheets to be issued, even though the adjustments have no influence on the properties and performance of the final and cured primer film. The following product numbers represent such adjustments HEMPEL GALVOSIL 1570K
Weathering/service temperatures:	<b>Wet service temperature</b> , non-saline water: max 60°C/140°F <b>Wet service temperature</b> , other liquids: Consult the corresponding CARGO PROTECTION GUIDE Hot sea water washing and (low pressure) steam cleaning should never be executed on tank coatings which have not been in service for at least one month. Contact HEMPEL about temperature permissible.
Film thicknesses/thinning:	<b>Thinning:</b> For application at high temperatures, a special thinner is available. Use: HEMPEL'S THINNER 08740  HEMPEL'S THINNER 0870M can be used to accelerate curing. (See separate APPLICATION INSTRUCTIONS) HEMPEL'S THINNER 0870M is not allowed to be used inside tanks.
Note:	<b>HEMPEL'S GALVOSIL 15700 For professional use only.</b>
ISSUED BY:	HEMPEL A/S <span style="float: right;">1570019840</span>

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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