



Product Data

HEMPEL'S GALVOSIL 15780

HEMPEL'S LIQUID 15789 with HEMPEL'S ZINC METAL PIGMENT 97170

Description:	HEMPEL'S GALVOSIL 15780 is a two-component, medium-zinc, solvent-borne, self-curing 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 2
Service temperatures:	Maximum service temperature is depending on the subsequent coat. See REMARKS overleaf.
Certificates/Approvals:	Meets the requirements laid down in ASTM A-490 Class "B" for Slip-Co-efficient and Creep Resistance.
Availability:	Part of Group Assortment. Local availability subject to confirmation.
PHYSICAL CONSTANTS:	
Colours/shade nos:	Metal grey/19840
Finish:	Flat
Volume solids, %:	61 ± 1
Theoretical spreading rate:	12.2 m ² /litre - 50 micron 489 sq.ft./US gallon - 2 mils
Flash point:	14°C/57°F
Specific gravity:	2.4 kg/litre - 20.0 lbs/US gallon
Dry to touch:	30 (approx.) min. at 20°C/68°F (75% RH)
Fully cured:	16 (approx.) hours at 20°C/68°F (75% RH)
V.O.C.:	445 g/litre - 3.7 lbs/US gallon
Shelf life:	6 months (25°C/77°F) for liquid 15789 and 3 years for Hempel's zinc metal pigment 97170 (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 40°C/104°F. Shelf life is exceeded if the liquid is gelled or if the mixed product forms gels before application.

The physical constants stated are nominal data according to the HEMPEL Group's approved formulas. They are subject to normal manufacturing tolerances and where stated, being standard deviation according to ISO 3534-1.

APPLICATION DETAILS:	Consult separate APPLICATION INSTRUCTIONS
Mixing ratio for 15780:	Liquid 15789 : HEMPEL'S ZINC METAL PIGMENT 97170 4.1 parts by weight : 5.9 parts by weight (Mixing by volume - see REMARKS overleaf)
Application method:	Airless spray Air spray Brush (touch-up)
Thinner (max.vol.):	08700 (30%) 08700 (50%) 08700 (10%)
Pot life:	4 hours (20°C/68°F)
Nozzle orifice:	.019" - .023"
Nozzle pressure:	100 bar/1500 psi (Airless spray data are indicative and subject to adjustment)
Cleaning of tools:	THINNER 08700
Indicated film thickness, dry:	50 micron/2 mils (See REMARKS overleaf)
Indicated film thickness, wet:	75 micron/3 mils
Recoat interval, min:	When fully cured
Subsequent coat, max:	6 months

Safety:	Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult HEMPEL Material Safety Data Sheets and follow all local or national safety regulations. Avoid inhalation, avoid contact with skin and eyes, and do not swallow. Take precautions against possible risks of fire or explosions as well as protection of the environment. Apply only in well ventilated areas.
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SURFACE PREPARATION:	Remove oil and grease, etc. with suitable detergent. Remove salt and other contaminants by (high pressure) fresh water cleaning. Abrasive blasting with sharp abrasive to minimum Sa 2½ 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. Consult separate APPLICATION INSTRUCTIONS.
APPLICATION CONDITIONS:	From 0°C/32°F to 40°C/104°F. Curing needs minimum 65% relative humidity and is very retarded at lower temperatures. Furthermore consult separate APPLICATION INSTRUCTIONS.
SUBSEQUENT COAT:	According to specification. Recoating is expected to take place within 6 months after application of HEMPEL'S GALVOSIL 15780.
REMARKS:	Certificates are issued under the former quality number 1578.
Service temperature:	HEMPEL'S GALVOSIL 15780 may be used for high temperature service if overcoated with HEMPEL'S SILICONE ALUMINIUM 56910. In such a 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.
Note:	If used as anticorrosive protection under insulation of high temperature equipment it is very important that NO moisture can penetrate during slowdown periods. This to avoid risk of "wet corrosion" when the temperature rises.
Film thicknesses:	50 micron/2 mils dry film thickness is recommended, but 75 micron/3 mils dry film thickness (125 micron/5 mil wet) may be specified, this will alter spreading rate and may influence drying time and recoating interval. (The dry film thickness range does not take into account the correction factors for rough surfaces as listed in ISO 19840).
Mixing:	When mixing part of the content in a can the mixing ratio on volume should be made as follows: Measure 8.0 parts of liquid 15789 and then add HEMPEL's ZINC METAL PIGMENT 97170 up to a total of 10.0 parts by volume.
Thinning:	For application at high temperatures, a special thinner is available.
Recoating:	Recoating intervals are strongly dependent on both temperature and humidity. Deviations from the standard conditions may shorten or prolong the recoating intervals. Full curing will be obtained after: 0°C/32°F and min. 75% RH: 3 days 10°C/40°F and min. 75% RH: 36 hours 20°C/68°F and min. 75% RH: 16 hours (a certain curing does take place at temperatures below 0°C/32°F, but at an extreme low speed). Furthermore consult separate APPLICATION INSTRUCTIONS.
Note:	HEMPEL'S GALVOSIL 15780 is for professional use only.
ISSUED BY:	HEMPEL A/S - 1578019840C0016

This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" in the HEMPEL Book.

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Product data are subject to change without notice and become void five years from the date of issue.