HEMPEL'S GALVOSIL* 1570$_0$

HEMPEL'S ZINC DUST 97170

Description:

HEMPEL'S GALVOSIL 1570 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. For service temperature range, see below. Applicable by airless spray. Offers cathodic protection of local mechanical damage.

Recommended use:

1. As a general purpose, heavy-duty, rust-preventing primer.
2. As a single, complete coating for long-term protection of steel exposed to moderately to severely corrosive environment and to abrasion.
3. As a tank lining in accordance with the CARGO PROTECTION GUIDE.

Service temperatures:

Dry service temperatures above 400°C/750°F do not result in immediate break-down but reduces long-term anticorrosive properties. Temperatures above approx. 500°C/900°F cause immediate breakdown. Maximum, wet: 60°C/140°F.

Approvals, certificates:

Approved by Directorate of Civil Aviation, Oslo as a low flame spread material.
Recommended by COMNAVSEASYSCOM, U.S. NAVY, as an exterior hull coating from waterline to main deck.
Complies with Section 175.300 of Food Additive Regulation (in respect of carriage of dry foodstuffs) of the Code of Federal Regulations as found by review of the U.S. Food and Drug Administration (FDA).
Certificated by Scientific & Technical Services to comply with the requirements of low moisture fats and oil according to FDA.
Approved by Lloyd's Register of Shipping as a corrosion control coating.

Availability:

Subject to confirmation. HEMPEL'S GALVOSIL 1570 may be replaced by HEMPEL'S GALVOSIL 1571, grey-green shade 42200; please consult the assortment list.

PHYSICAL CONSTANTS:

Colours/Shade nos:	Metal grey/19840
Finish:	Flat
Volume solids:	64%
Theoretical spreading rate:	12.8 m²/litre - 50 micron 513 sq.ft./US gallon - 2 mils
Flash point:	14°C/57°F
Specific gravity:	2.65 kg/litre - 22.1 lbs/US gallon
Dry to touch:	30 (approx.) min. at 20°C/68°F (65-75% RH)
Fully cured:	3 (approx.) days at 20°C/68°F (65-75% RH) *(See REMARKS overleaf)*
V.O.C.:	535 g/litre - 4.5 lbs/US gallon
Shelf life:	1 year from time of production (25°C/77°F). 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 are subject to normal manufacturing tolerances.
Further reference is made to "Explanatory Notes" in the Hempel Book.

APPLICATION DETAILS:

Mixing ratio for 15700:	Base 15709 : zinc dust 97170 3.2 parts by weight : 6.8 parts by weight 11.2 parts by volume : 3.8 parts by volume		
Application method:	Airless spray	Air spray	Brush (touch-up)
Thinner (max.vol.)	0870 (30%)	0870 (50%)	0870 (10%)
Pot life:	8 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 0870		
Indicated film thickness, dry:	50 micron/2 mils *(See REMARKS overleaf)*		
Indicated film thickness, wet:	75 micron/3 mils		
Recoat interval, min:	See REMARKS overleaf		
Recoat interval, max:	None *(See REMARKS overleaf)*		

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2. HEMPEL'S GALVOSIL 15700

SURFACE PREPARATION:	Remove oil and grease, etc. with suitable detergent. Remove salt and other contaminants by (high pressure) fresh water cleaning. Gritblasting to minimum Sa 2½ with a surface profile equivalent to Rugotest No. 3, BN10a, Keane-Tator Comparator, min. 3.0 G/S, or ISO Comparator rough MEDIUM (G). Consult separate Application Instructions, and - as relevant - the corresponding PAINTING SPECIFICATION for cargo tanks.
APPLICATION CONDITIONS:	The surface must be completely clean and dry with a temperature above the dew point to avoid condensation. At temperatures ranging from -10°C/15°F to 40°C/105°F. Curing needs minimum 65% relative humidity. Consult separate APPLICATION INSTRUCTIONS.
SUBSEQUENT COAT:	None.
REMARKS:	**Note:** If used as anticorrosive protection under insulation of high temperature equipment it is very important that NO moisture can penetrate during shut-down periods. This to avoid risk of "wet corrosion" when the temperature rises. Wet service temperature, non-saline water: Maximum 60°C/140°F. Wet service temperature, other liquids: Consult the corresponding CARGO PROTECTION GUIDE.
Film thicknesses:	If topcoated with a heavy- duty system, 50 micron/2 mils dry film thickness (75 micron/3 mils wet) is recommended. Consult separate Application Instruction before recoating. For long-term protection without topcoat, 75 micron/3 mils dry film thickness (100-125 micron/4-5 mils wet) is generally recommended. In tanks 100 micron/4 mils dry film thickness (150 micron/6 mils wet) is recommended but may be applied in 125 micron/5 mils dry film thickness (200 micron/8 mils wet). Minimum interval for recoating with: 20°C/68°F, 65-75% RH HEMPADUR (system/high-build) 3 days, full curing (see APPLICATION INSTRUCTIONS) HEMPADUR (25 micron/1 mil) 24 hours
Recoating:	Recoating intervals are strongly dependent on both temperature and humidity. Deviations from the standard conditions may shorten or prolong the recoating intervals. Consult separate APPLICATION INSTRUCTIONS. The recoating interval of 24 hours for 25 micron/1 mil HEMPADUR is only valid in case the subsequent coat is applied more than 1 week after (20°C/68°F), 75% RH, humid weather. Otherwise, the minimum recoating interval is the same as for system/high-build.
Curing:	Before cargo tanks are taken into use, the coating must be completely through-cured. It is recommended to carry out low pressure hosing of the tanks with (fresh) water 2-3 times. Let the tanks remain wet between the washings. Reference is made to APPLICATION INSTRUCTIONS.
Note:	**HEMPEL'S GALVOSIL 1570 is for professional use only.**
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. Harmful or fatal if swallowed; immediately seek medical assistance if swallowed. Avoid inhalation of possible solvent vapours or paint mist, as well as paint contact with skin and eyes. Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of fire and explosions.

This Product Data Sheet supersedes those previously issued. For definition and scope, see explanatory notes to applicable Product Data Sheets. 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. The Products are supplied and all technical assistance is given subject to HEMPEL's GENERAL CONDITIONS OF SALES, DELIVERY AND SERVICE, unless otherwise expressly agreed in writing. The Manufacturer and Seller disclaim, and Buyer and/or User waive all claims involving, any liability, including but not limited to negligence, except as expressed in said GENERAL CONDITIONS for all results, injury or direct or consequential losses or damages arising from the use of the Products as recommended above, on the overleaf or otherwise.
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