

# HEMPEL'S GALVOSIL<sup>®</sup> 15620

HEMPEL'S ZINC DUST 97160

**Description:** HEMPEL'S GALVOSIL 1562 is a two-component, self-curing, water-borne, inorganic zinc silicate with outstanding resistance against weathering and abrasion. It has excellent chemical resistance within the pH range 5.5-9.5. For service temperature range, see below. Offers cathodic protection of local mechanical damage.

**Recommended use:**

1. As a tank lining in accordance with the CARGO PROTECTION GUIDE.
2. As a single, complete coating for long-term protection of steel exposed to moderately to severely corrosive environments and to abrasion.

**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 Lloyd's Register of Shipping as a provisionally recognized corrosion control coating.  
Complies with Section 175.300 of Food Additive Regulations (in respect of carriage of dry foodstuffs) of the Code of US Federal Regulations (FDA).  
Certificated by Scientific & Technical Services to comply with the requirements of low moisture fats and oil according to FDA.

**Availability:** Subject to confirmation.

## PHYSICAL CONSTANTS:

Colours/Shade nos: Metal grey/19840  
Finish: Flat  
Volume solids: 69%  
Theoretical spreading rate: 6.9 m<sup>2</sup>/litre - 100 micron  
277 sq.ft./US gallon - 4 mils  
Flash point: Non-flammable  
Specific gravity: 3.1 kg/litre - 25.9 lbs/US gallon  
Dry to touch: 45-60 min. at 20°C/68°F (75% RH)  
Fully cured: 10 (approx.) days at 20°C/68°F (75% RH)  
(Consult separate APPLICATION INSTRUCTIONS)  
V.O.C.: 0 g/litre - 0 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 or below 5°C/40°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 15620:** Base 15629 : zinc dust 97160  
2.63 parts by weight : 7.37 parts by weight  
7.8 parts by volume : 3.8 parts by volume

**Application method:** Air spray                      Brush (touch-up)

**Thinner (max.vol.):** Fresh water, but usually no thinning (Consult separate APPLICATION INSTRUCTIONS)

**Pot life:** 5 hours (20°C/68°F).  
Beyond this time the mixture must not be used even if it may appear unchanged.

**Cleaning of tools:** Fresh water

**Indicated film thickness, dry:** 100 micron/4 mils (See REMARKS overleaf)

**Indicated film thickness, wet:** 150 micron/6 mils

**Recoat interval, self-recoating:** For rectifying of too low film thickness: Within 3 days (20°C/68°F)  
(Consult separate APPLICATION INSTRUCTIONS)

**Topcoating, min:** When fully cured (Consult separate APPLICATION INSTRUCTIONS)

**Topcoating, max:** None

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## 2. HEMPEL'S GALVOSIL 15620

SURFACE	Abrasive blast cleaning to minimum Sa 2½, SSPC-SP-10, with a sharp surface profile equivalent to
PREPARATION:	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:	At temperatures ranging from minimum 5°C/41°F, preferably above 10°C/50°F, to approximately 40°C/ 104°F, and relative humidities ranging from 50% to 75%. It is very important that all coated surfaces are strongly ventilated during application and drying. The coating must dry to a hard film in approximately one hour, maximum 2 hours, after application. Consult separate APPLICATION INSTRUCTIONS.
CURING CONDITIONS:	Preferably 70% to 85% RH, the temperature as per above. Varying humidities are also acceptable provided that the high level mentioned is reached at least once per 24 hours. For use in tanks wash the surface with seawater 24 hours (20°C/68°F) at the earliest and 7 days at the latest after application. Allow the surface to dry (in tanks by ventilation to approx 70% RH). Preferably the washing may be repeated with an interval of 24 hours. Allow the surface to dry in between. If the coating is not for cargo tanks but for weathering in not topcoated condition, washing with seawater can be omitted.
PRECEDING COAT:	None or properly abrasive sweepblasted intact straight zinc silicate shopprimers.
SUBSEQUENT COAT:	Normally none, otherwise as per specification.
REMARKS:	<b>Note:</b> 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:	For long-term protection without top coat, minimum 100 micron/4 mils dry film thickness (150 micron/6 mils wet) is generally recommended. Depending on the specification, 100-125 micron/4-5 mils dry film thickness (150-175 micron/6-7 mils wet) is used in tanks. With topcoat: GALVOSIL 1562 may be topcoated. If a heavy duty system is applied, the thickness of GALVOSIL 1562 can advantageously be reduced to 50 micron/2 mils dry film thickness (75 micron/3 mils wet). Irrespective of film thickness specified it must as a principle be applied in a one-coat process, if needed by a "wet-in-almost-dry" procedure of application. Consult separate APPLICATION INSTRUCTIONS. Do not expose to frost during storage and transport, or until coating is thoroughly dry.
Note:	<b>HEMPEL'S GALVOSIL 1562 is for professional use only.</b>
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.

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

Issued by HEMPEL'S MARINE PAINTS A/S.

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