

HEMPEL'S SILICONE ZINC 1690

Description:	HEMPEL'S SILICONE ZINC 1690 is a heat resistant zinc pigmented silicone primer. It is air drying at ambient temperature and resists temperatures up to 400°C/750°F. (See REMARKS overleaf)
Recommended use:	As a primer for long-time corrosion protection of steel exposed to high temperatures (from 100°C/210°F to 400°C/750°F).
Service temperatures:	Maximum service temperature is depending on the subsequent coat. When topcoated with HEMPEL'S SILICONE ALUMINIUM 5691 dry service temperature is max. 400°C/750°F.
Availability:	Subject to confirmation.

PHYSICAL CONSTANTS:

Colours/Shade nos:	Metal grey/19840
Finish:	Flat
Volume solids:	58%
Theoretical spreading rate:	14.5 m ² /litre - 40 micron 581 sq.ft./US gallon - 1.6 mil
Flash point:	25°C/77°F
Specific gravity:	2.6 kg/litre - 21.7 lbs/US gallon
Surface dry:	1 (approx.) hours at 20°C/68°F (ISO 1517)
Dry to touch:	2-3 hours at 20°C/68°F
V.O.C.:	388 g/litre - 3.2 lbs/US gallon

*The physical constants are subject to normal manufacturing tolerances.
Further reference is made to "Explanatory Notes" in the Hempel Book.*

APPLICATION DETAILS:

Application method:	Airless spray	Air spray	Brush
Thinner (max.vol.):	0808 (5%)	0808 (15%)	0808 (5%)
Nozzle orifice:	.017"		
Nozzle pressure:	125 bar/1800 psi		
	<i>(Airless spray data are indicative and subject to adjustments)</i>		
Cleaning of tools:	THINNER 0808		
Indicated film thickness, dry:	40 micron/1.6 mil		
Indicated film thickness, wet:	75 micron/3 mils		
Recoat interval, min:	4 hours (20°C/68°F)	<i>(See REMARKS overleaf)</i>	
Recoat interval, max:	None	<i>(See REMARKS overleaf)</i>	

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SURFACE PREPARATION:	Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by high pressure fresh water cleaning. Abrasive blasting to Sa 2½. If shopprimer is required, only zinc silicate type is recommended.
APPLICATION CONDITIONS:	Clean and dry surface with a temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.
PRECEDING COAT:	None, or zinc silicate shopprimer.
SUBSEQUENT COAT:	HEMPEL'S SILICONE TOPCOAT 5690, HEMPEL'S SILICONE ALUMINIUM 5691 or similar according to specification.
REMARKS:	Note: If used as anticorrosive protection under insulation of high temperature equipment it is very important that NO moisture can penetrate during slow-down periods. This to avoid risk of "wet corrosion" when the temperature rises. Do not expose the paint system to heat before it is through dry (minimum 24 hours at 20°C/68°F).
Film thicknesses:	It is recommended to avoid too high thicknesses of the paint as this will give a risk of blistering at later heating. For high temperature service, the total dry film thickness of the paintsystem should preferably be kept at 75 micron/3 mils.
Recoating intervals:	May be recoated both at ambient temperature and after being heated for one hour to a temperature above 200°C/392°F. Before recoating after exposure in contaminated environment, clean surface thoroughly by high pressure fresh water hosing and allow to dry.
Note:	HEMPEL'S SILICONE ZINC 1690 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.

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.

*This is a corporate trademark of the Hempel Group.

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