Product Data

HEMPEL'S SILICONE ZINC 16900

Description:
HEMPEL'S SILICONE ZINC 16900 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 56910 dry service temperature is max. 400°C/750°F.

Certificates/Approvals:
Complies with EU Directive 2004/42/EC, subcategory i (see REMARKS overleaf).

Availability:
Part of Group Assortment. Local availability subject to confirmation.

PHYSICAL CONSTANTS:

Colours/Shade nos:	Metal grey/19840
Finish:	Flat
Volume solids, %:	54± 1
Theoretical spreading rate:	13.5 m² itre - 40 micron 541 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.:	415 g/litre - 3.5 lbs/US gallon

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:

Application method:	Airless spray	Air spray	Brush
Thinner (max.vol.):	08080 (5%)	08080 (15%)	08080 (5%)
Nozzle orifice:	.017"		
Nozzle pressure:	125 bar/1800 psi *(Airless spray data are indicative and subject to adjustments)*		
Cleaning of tools:	THINNER 08080		
Indicated film thickness, dry:	40 micron/1.6 mil		
Indicated film thickness, wet:	75 micron/3 mils		
Recoat interval, min:	24 hours (20°C/68°F)		*(See REMARKS overleaf)*
Recoat interval, max:	None *(See REMARKS overleaf)*		

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. 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 56900, HEMPEL'S SILICONE ALUMINIUM 56910, HEMPEL'S SILICONE ACRYLIC 56940 or similar according to specification.

REMARKS:

VOC - EU directive 2004/42/EC:

	As supplied	15 vol. % thinning	Limit phase I, 2007	Limit phase II, 2010
VOC in g/l	415	475	600	500

VOC: For VOC of other shades, please refer to Safety Data Sheet.

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.

Thermoplasticity: The paint film is somewhat thermoplastic also after heating.

Film thicknesses: It is recommended to avoid too high thicknesses of the paint as this will give a risk of blistering at later heating. THINNER 08080 must be added at application to secure the low dry film thickness.

High temperature service: For high temperature service, the total dry film thickness of the paint system should preferably be kept at 75 micron/3 mils as maximum.

First exposure to heat: On first exposure to heat the temperature increase from ambient temperature to the required service temperature must run over a period of 24 hours.

Curing: The coating will be fully cured after:
3 days at 100°C/212°F,
1 day at 150°C/302°F,
or 2 hours at 200°C/392°F

Recoating: May be recoated when through dry (24 hours at 20°C/68°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 16900 is for professional use only.**

ISSUED BY: HEMPEL A/S - 1690019840CO0005