



Product Data

HEMPEL'S SILICONE ALUMINIUM 56910

Description:	HEMPEL'S SILICONE ALUMINIUM 56910 is a heat resistant aluminium pigmented polysiloxane paint.
Recommended use:	For long-term protection of hot pipelines, exhaust pipes, smoke stacks and other hot surfaces. In corrosive environment see PRECEDING COAT overleaf.
Service temperatures:	Maximum, dry exposure only: 600°C/1112°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:	Aluminium/19000
Finish:	Semi-flat (See REMARKS overleaf)
Volume solids, %:	35 ± 1
Theoretical spreading rate:	14.0 m ² /litre - 25 micron 561 sq.ft./US gallon - 1.0 mil
Flash point:	25°C/77°F
Specific gravity:	1.1 kg/litre - 9.2 lbs/US gallon
Surface dry:	1 (approx.) hour at 20°C/68°F (ISO 1517)
Dry to touch:	2-4 hours at 20°C/68°F
V.O.C.:	585 g/litre - 4.9 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%) (See REMARKS overleaf)
Nozzle orifice:	.017"		
Nozzle pressure:	125 bar/1800 psi (Airless spray data are indicative and subject to adjustment)		
Cleaning of tools:	THINNER 08080		
Indicated film thickness, dry:	25 micron/1 mil (See REMARKS overleaf)		
Indicated film thickness, wet:	75 micron/3 mils		
Recoat interval, min:	24 hours (20°C/68°F) (See REMARKS overleaf)		
Recoat interval, max:	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.
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:	Can be used directly on blast-cleaned steel. For maximum corrosion protection, a primer coat of one of the following paints is recommended (40 micron/1.6 mil dry film thicknesses): HEMPEL'S SILICONE ZINC 16900 or HEMPEL'S GALVOSIL 15700. This will lower the heat resistance; reference is made to the product data sheets for the mentioned primers.
SUBSEQUENT COAT:	None.

REMARKS:

VOC - EU directive 2004/42/EC:

	As supplied	5 vol. % thinning	Limit phase I, 2007	Limit phase II, 2010
VOC in g/l	585	595	600	500

Gloss:	After exposure to heat the gloss is reduced.
Thermo plasticity:	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 HEMPEL'S SILICONE ALUMINIUM 56910 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) or after being heated for one hour to approximately 200°C/392°F. Before recoating after exposure in contaminated environment, clean surface thoroughly by high pressure fresh water hosing and allow to dry.
Zinc silicate primer:	If HEMPEL'S SILICONE ALUMINIUM 56910 is applied on zinc silicate coatings, such as HEMPEL'S GALVOSIL 15700, popping may occur after application or after first heating up. The best way to avoid popping is to apply a mist coat in the first pass of HEMPEL'S SILICONE ALUMINIUM 56910. Let the air escape and apply the full coat of HEMPEL'S SILICONE ALUMINIUM 56910.

Note: **HEMPEL'S SILICONE ALUMINIUM 56910 is for professional use only.**

ISSUED BY: HEMPEL A/S - 5691019000C0004

This Product Data Sheet supersedes those previously issued.

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

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.

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