

PRODUCT DESCRIPTION

SILICONE ALUMINIUM HR 53465

RSI SILICONE ALUMINIUMHR 53465 is heat resistant aluminum pigmented paint for use as a topcoat.

RSI SILICONE ALUMINIUMHR 53465 can be applied for long-term protection of hot pipelines, exhaust pipes, smoke stacks and other hot surfaces.

Standard color availability Aluminum.

GENERAL PROPERTIES

Adhesion	Good to both primed and blasted clean surfaces.
Temperature resistance	Maximum, dry: 600°C/1112°F.

PHYSICAL PROPERTIES:

Colors/Shade No	Aluminum/RAL No.
Finish	Semi-flat After exposure to heat the gloss is reduced.
Volume Solid	31%
Theoretical spreading rate	12.4 m ² /liter 25 Mic. Dft.
Flash point	25 °C
Specific gravity	1 kg/liter
V.O.C.	Max. 700 gr/liter
Shelf life	1 Year (25°C / 77°F) from time of production. Depending on storage condition, mechanical stirring may be necessary before usage.

APPLICATION

Conditions	Clean and dry surface with a temperature min. 3 °C above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.		
Method	Airless sprays	Air spray	Brush (touch-up)
Thinner (max. vol.)	3065 (5-15%)	3065(15%)	3065 (5%)
Spray setting			
Pump ratio minimum	30:1		
Tip size	0.017"	1.8 mm	
Tip pressure	125 bar / 1800 Psi	4 – 5 bar	
	(Airless spray data are indicative and subject to adjustment)		
Cleaning of tools	Thinner 3065		
Indicated film thickness, dry	31 microns		
Indicated film thickness, wet	100 microns		

DRYING AND CURING TIMES AT (20 °C)

Surface dry	1 hour
Dry to touch	2-4 hours
Full curing	See REMARKS
Recoat interval, min	24 hours
Recoat interval, max	See REMARKS

SURFACE PREPARATION

Surface condition	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.
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REMARKS

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): RSI SILICONE ZINC 73365 or RSI ZINC SILICATE 74361. This will lower the heat resistance, reference is made to the product data sheets for the mentioned primers.
SUBSEQUENT COAT:	None.
Film thickness:	It is recommended to avoid too high thicknesses of the paint as this will give a risk of blistering at later heating. THINNER 3065 must be added at application to secure the low dry film thickness. Normal Range is a 25 micron.
Thinning:	The type and amount of thinner depend on application conditions, application method, temperature, ventilation, and substrate. Thinner 3065 is recommended in general.
Curing:	To obtain full curing RSI SILICONE ALUMINIUM 53465 requires heating to minimum 200°C/392°F for at least 5 days as the coating will otherwise exhibit certain thermo plasticity.
High temperature service:	For high temperature service, the total dry film thickness of the paint system should preferably be kept at 50 micron/2 mils as maximum.
First exposure to heat:	Do not expose the paint system to heat before it is through dry (minimum 24 hours at 20°C/68°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 RSI SILICONE ALUMINIUM 53465 is applied on zinc silicate coatings, such as RSI 74360, 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 RSI SILICONE ALUMINIUM 53465. Let the air escape and apply the full coat of RSI SILICONE ALUMINIUM 53465.

SAFETY

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult RSI material safety data sheets and follow all local and national safety regulations. Harmful or fatal if swallowed; immediately seek medical assistance. Avoid inhalations of possible solvent vapors or paint mist, as well as paint contact with skin and eyes. Apply only on 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.

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Ranghay e Sanati e Iran Co.
Product data sheet 53465

RSI
COATING