

HEAT RESISTING SILICONE ALUMINIUM PAINT / APCOTHERM 540



PRODUCT DESCRIPTION

Single pack, silicone resin based, heat resisting aluminium coating

FEATURES & RECOMMENDED USE

- Suitable as temperature resistance coating for chimneys, furnace, external pipe, vessels, equipment, exhaust & vents etc.
- Resistant to dry heat up to 540°C
- Good weather resistance
- Good water resistance
- Can be applied over aluminium / zinc metallised substrate or zinc silicate primer

TECHNICAL DATA

Colour	Aluminium & Limited range *
Gloss	Eggshell to Semi-Glossy
Volume Solids	Approx. 28%
Recommended DFT / Coat	15 - 25 µm
Theoretical Coverage Capacity	18.7 sq.mtr/ltr @ 15 µm DFT 11.2 sq.mtr/ltr @ 25 µm DFT
Drying time at 30°C	Surface Dry : 90 minutes Hard Dry : 16 hours
Over coating interval at 30°C	Min. : 16 hours Max. : Unlimited, provided surface is dry and clean from all contamination

The data given is for guideline only. The physical values are subject to normal manufacturing tolerances, colour and testing variances
The volume solids indicated are as per ASTM D 2697 air drying method
The actual drying time/ overcoat interval may be shorter or longer, depending on film thickness, ventilation, humidity, temperature etc.
The information provided above is at 30°C and 65% relative humidity
*Note: Also available in aluminium free colour version with temperature resistance upto 200°C

DIRECTIONS FOR USE

Surface Preparation

General

- Surfaces must be dry, clean and free from contaminants
- Ensure removal of dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. Oil and grease should be removed as per SSPC-SP1 solvent cleaning
- Surface should be checked and treated in accordance with ISO 8504 prior to priming

Blast Cleaning

- Suitable zinc silicate primer or over aluminium/ zinc metallized surface; dry & free from all surface contamination. Mist coat is recommended when applied over zinc silicate primer
- For application over weathered zinc primers, ensure white rust removal by thorough water scrubbing/ high pressure water cleaning
- Steel, blast clean to Sa 2.5 of Swedish specification
- A blasting profile of (Rz) 25-30 µm is recommended

Application Conditions

- Substrate temperature should be at least 3°C above dew point but not above 50°C
- Relative humidity should be below 85%
- Good ventilation is required in confined areas to ensure proper curing

Instruction for use

- Loosen the settled material, if any, with the help of hand stirrer followed by power driven stirrer for quick homogenous mixing
- Thinner should be added after mixing. Addition of excessive thinner will lead to reduced sag resistance

Application

Air Spray Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure Cleaning Thinner	T 131 0 – 10 % * 1.5 - 3.0 mm 0.3-0.4 MPa (= approx. 3-4 atm; 43-57 p.s.i) T 131
Airless Spray Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure Cleaning Thinner	T 131 0 – 5 % * 0.28 - 0.33 mm(11 – 13 Thou) 10 – 13 MPa (= approx. 100 – 130 atm; 1400 - 1800 p.s.i.) T 131
Brush / Roller Recommended thinner Volume of thinner	T 131 Not required

***Note:** Depending on recommended thickness & application condition

Cleaning

- Do not allow the product to remain in hoses, gun or spray equipment. Clean all equipment's immediately after use with thinner T - 131. It is recommended to periodically flush out spray equipment during the course of the working day. The frequency of cleaning will depend on amount sprayed, temperature and time gap.
- All surplus material and empty containers should be disposed off in accordance with appropriate regional legislation.

Product Characteristics

- The maximum performance is achieved after complete drying
- At higher relative humidity, drying may get retarded
- The coating thickness should be achieved 25 µm in single coat during application
- The product is not recommended for immersion service and use in highly acidic environment or where acid/alkali spillage occurs
- As common to all aluminium based coating, loss of lustre can be observed when directly exposed to acid/alkali
- The product should not be applied on hot surfaces
- Heat Resisting Silicon Aluminium Paints / Apcotherm 540 is suitable for abrasive blast clean surface with maximum operating temperature of 540°C continuous exposure to dry heat. In case of intermittent exposure prior application of zinc silicate primer is recommended
- Inorganic zinc silicate primer application will enhance the corrosion resistance of the system
- While applied over zinc silicate ensure recommended of 25 µm in single coat; blister may occur at excessive thickness. Ensure, zinc silicate primer is thoroughly cured prior application of heat resistance coating
- The nail hardness of film will be achieved after exposure of painted structure to service temperature of 200 to 250°C for 2 hours

PACK SIZE	20 L & 4 L
STORAGE	Shelf Life: At least 12 months at 30°C for original unopened pack, subject to inspection thereafter. Store in a cool, dry place and in accordance with local regulations
REGULATORY INFORMATION	Flash Point: Not less than 24°C VOC: 670 ± 20 gm/ltr as per USA-EPA Method 24 Product Weight: Approx. 1.09 ± 0.05 kg/ltr

SAFETY INFORMATION

- As a general safety measure, inhalation of solvent vapours or paint mist and contact of liquid paint with skin & eyes, should be avoided. Forced ventilation should be provided when applying paint in confined spaces or stagnant air. Even when ventilation is provided, respiratory, skin and eye protection are always recommended when spraying paint
- Please refer our Material Safety Data Sheet prior to using the product

Disclaimer: To the best of our knowledge the information provided herein are true and accurate at the date of issuance. Since we have no control over the quality or condition of the substrate or the various factors affecting the use and application of the product, we do not accept any responsibility or liability arising out of use of the product. The company reserves the right to modify data contained herein without prior notice. Any change in data would normally be followed by issue of a new data-sheet. The user should check with the nearest sales office of the company and confirm the validity of the information, prior to using the product.

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