

APCOTHERM HR 600 / APCOTHERM 600

PRODUCT DESCRIPTION

Single pack, silicone resin based, heat resisting aluminium coating

FEATURES AND RECOMMENDED USE

- Suitable for dry heat temperature resistance for chimneys, furnace, external pipe, vessels, equipment, exhaust & vents etc.
- Dry heat resistant upto 600°C
- Good water & weather resistance
- Can be directly applied over aluminium/ zinc metallised substrate or zinc silicate primer

TECHNICAL DATA

Colour	Aluminium
Gloss	Metallic
Volume Solids	Approx. 28%
Recommended DFT / Coat	20 - 25 μm
Theoretical Coverage Capacity	14.0 sq.mtr/l @ 20 μm DFT 11.2 sq.mtr/l @ 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.

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.

Primed Surfaces

- 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
- A blasting profile of (Rz) 25-30 μm is recommended when applied on the blasted surface

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

- If settling is observed in the drum, loosen the settled material 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	T - 131
Volume of thinner	0 - 10%*
Nozzle orifice	1.5 - 3.0 mm
Nozzle Pressure	0.3 – 0.4 MPa (= approx. 3 – 4 atm; 43 – 57 p.s.i.)
Cleaning Thinner	T - 131
Airless Spray	
Recommended thinner	T - 131
Volume of thinner	0 - 5%*
Nozzle orifice	0.28 - 0.33 mm (11 – 13 Thou)
Nozzle Pressure	10 – 13 MPa (= approx. 100 – 130 atm; 1400 - 1800 p.s.i.)
Cleaning Thinner	T - 131
Brush / Roller	
<i>Suitable for stripe coating and small areas.</i>	
Recommended thinner	T - 131
Volume of thinner	0 - 5%*

*Note: Depending on recommended thickness & application condition

Cleaning

- Do not allow the product to remain in hoses, gun or spray equipment. Clean all equipments 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
- Apcotherm HR 600/Apcotherm 600 is not recommended for immersion service and use in highly acidic environment or where acid/alkali spillage occurs

- As common to all aluminium coatings, loss of lustre can be observed when directly exposed to acid & alkalies
- For corrosion protection, zinc silicate primer coat is recommended
- The product should not be applied on hot surfaces
- The desired nail hardness will be achieved after exposure of painted surface to 200°C for 2-3 hours
- Restrict maximum coating thickness of 25 µm in single coat
- While application over zinc silicate, ensure recommended thickness 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
- Apcotherm HR 600/Apcotherm 600 is suitable for abrasive blast clean surface with maximum operating temperature of 600°C continuous dry heat. In case of intermittent exposure prior application of zinc silicate primer is recommended

PACK SIZE	20 L
STORAGE	Shelf Life: Atleast 12 months @ 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 27°C VOC: 620 ± 20 gm/l as per USA-EPA Method 24 Product Weight: Approx 1.10 ± 0.05 kg/l

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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