

RAK Therm 400

Product description

RAK Therm 400 is a specialized silicon paint offering heat resistant up to 400°C and is contains highly pure metallic aluminium flakes dispersed in a tailored siloxane binder for high end performance. It has a bright and silver appearance and leafing coating to reflect light and heat away from substrates. Coating has best in class heat, water and weather resistance.

Typical use

It is recommended for metal surfaces like electric poles, exhaust pipes, Chimney, radiators, iron towers, pipe, Tank exteriors, Power plants etc.

Finish

Silver

Product data

Property	Description
Gloss level (GU 60 °)	Matt
Solids by Volume	37 ± 2 %
Flash point	29°C
Density	1.05 kg/l
VOC-EU	639 g/l

The provided data is typical for factory produced products, subject to slight variation depending on colour.

All data is valid for mixed paint.

Gloss description: According to RAK Performance Coatings' definition.

Film thickness per coat

Typical recommended specification range

Dry film thickness	20	-	30	µm
Wet film thickness	56	-	84	µm
Theoretical spreading rate	18	-	12	m ² /l

Surface preparation

Surface should be clean from all dust, rust, wax, oil, grease, loose particles, flakes and other contaminants. Remove all wax, oil and grease by solvent cleaning as per instruction given by SSPC-SP1. Abrasive blast cleaning of substrate should meet minimum standard of SSPC-SP-10 or Swedish Standard Sa 2 1/2 -SIS 05 5900 or ISO-8501: 1988. After abrasive blast cleaning, remove dust from the surface. Recommended surface profile is 25 microns and it should not exceed 40 microns. Surface to be recoat should clean thoroughly before application.

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Application

Application methods

The product can be applied by

- Spray: Use conventional air spray or airless spray.
Brush: Recommended only when area is not suitable for spray application
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Product mixing

Single Pack.

Thinner/Cleaning solvent

Thinner: RAK QD Thinner

0 - 5% Max. thinner is recommended as per need.

Guiding data for Airless spray

- Nozzle tip Size : 0.15 – 0.025 inch
Pressure at nozzle (minimum): 2000 psi

Apply this product only if relative humidity is less than 85% and substrate temperature is minimum 10° C & above 3° C of the dew point

Drying and Curing time

Surface Dry	60 Minutes
Tack free	3 Hours
Full Cure	Overnight
Recoating Time (Minimum)	10 Hours

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, 30° C temperature and at average of the DFT range for the product.

Pot Life

Single pack

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Product compatibility

Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product. Some examples are shown below. Contact RAK Paint for specific system recommendation.

Previous coat : RAK Therm 400 (self-Priming)
Topcoat : RAK Therm 400

Packaging (typical)

RAK Therm 400 3.6 L and 18 L

Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Shelf life at 30 °C

RAK Therm 400 24 month(s)

In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

Health and safety

During paint application, it is advisable to wear suitable protective guards (PPE). In case of accidental contact with eyes rinse immediately with plenty of water and seek medical advice. In case of inhalation- remove to fresh air, loosen collar and keep patient rested. Get medical treatment. For remove splashes from skin, use soap and water or approved skin cleanser. Flammable material always keeps away from sources of ignition and do not smoke. Ensure sufficient ventilation during application and drying. Do not breathe vapour/spray. Keep container tightly closed and keep out of reach of children. In case of fire - use foam, carbon dioxide or dry chemicals. For more information, refer MSDS.

Disclaimer

The data provided in this sheet is given to the best of our knowledge and based on laboratory testing and practical experience. We cannot guarantee anything but the product since the conditions and methods during application vary. We reserve the right to change the given data without prior notice. The product data sheet supersedes those previously issued.

For more information, contact your local RAK Paints Representative, go to www.rakpaints.com or call +971-7-2444036.