

## 50590 KANTHERM 200 ALU

### PRODUCT DESCRIPTION

**50590 KANTHERM 200 ALU** is an styrene modified alkyd resin based, one component, air drying, metallic coating containing aluminium pigments for improved heat resistance. The service temperature is between 0-250°C dry temperature.

### RECOMMENDED USE

It is used as a protective coating on heated steel surfaces exposed up to 200°C continuous dry temperature for

- Exteriors of furnaces.
- Exteriors of steel chimneys.
- Exteriors of exhaust systems and gas channels.
- Other exposures in industrial areas subjected to high temperatures.

The color may be changed over time depending on temperature and exposure time. It resists short term exposure to 250°C.

### PRODUCT CHARACTERISTICS

Finish: Metallic	Density (g/ml) 1,37±0,10
Colour: Silver	Spreading Rate (m <sup>2</sup> /l) 17,60 (25 microns DFT)
Thinner: Kanat Thinner 0672	Flash Point 39°C
Mixed Product; Volume Solids (%) 44±2	VOC ( Volatile Organic Content) 482 g/l
	Application Methods Airless, Conventional Spray, Roller

### DRYING SCHEDULE(\*)

(25 microns/1 mils film thickness)

	Dry to Touch	Hard Dry
5°C	45 minutes	4 hours
15°C	30 minutes	3 hours
25°C	20 minutes	2 hours
35°C	15 minutes	2 hours

Drying values are valid for defined dry film thickness and below 80% relative humidity.

(\*) Drying time increases with increasing film thickness.

### PACKAGING

One pail of **50590 KANTHERM 200 ALU** is 16 l.

### SHELF LIFE

1 year when the material is stored in a cool and dry place in unopened original containers.

### HEALTH/SAFETY PRECAUTIONS

Refer to the MSDS sheet prepared according to EU directives before use.

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### SURFACE PREPARATION

Surfaces must be dry, clean, free of oil, grease and other foreign material.

**New Surfaces:** Steel – Surfaces should be blasted to near-white metal surface cleanliness according to SSPC-SP10 or ISO 8501-1 Sa 2½. Blast profile on steel should be 40-50 microns in depth. Depending on ambient conditions, blasted surfaces must be primed in maximum 5 hours with **50590 KANTHERM 200 ALU**.

**Previously Painted Surfaces:** Remove all the old paint to bare steel by abrasive blasting.

**Rusty Surfaces:** Contact to KANAT PAINTS & COATINGS Project Group.

**Touch up:** Remove all dust, dirt, and other foreign material and keep dry. Clean the surface to St 2 - St 3 level mechanically according to ISO 8501-1 and complete the touch up application as soon as possible. **50590 KANTHERM 200 ALU** can be safely used for touch up.

### APPLICATION PROCEDURES

It is a one-component paint and should be mixed well after the package is opened. The product should be homogenized and applied after viscosity adjustment is made according to the application equipment.

### APPLICATION CONDITIONS

For the best results;

Temperature must be more than 5°C during the application and/or the curing process.

**Surface temperature:** At least 3°C above dew point.

**Relative humidity:** 80% maximum.

Good ventilation is required during application

### APPLICATION

Stripe coat all crevices, welds, and sharp angles. Apply paint at the recommended film thickness and spreading rate.

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance. 1-2 hours drying is recommended before the second coat for best results. Recoating shall be done in the same day or after 7 days. Do not apply more than 100 microns (4 mils) WFT to prevent sagging. When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

### CLEAN UP

**KANAT THINNER 0644 CLEANING , KANAT THINNER 0672**

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## APPLICATION EQUIPMENT

(The table is a guide for 20°C)

Application Equipment	Airless Spray	Conventional Spray	Roller
Thinner maximum	%5-6	%25-30	%15-17
Pressure minimum (bar)	80-130	3-4	–
Nozzle(inch)	0,011-0,015	1,4-1,6	–

## PRECAUTIONS

- Paint system shall not be subjected to high temperatures before full-drying (24 hours at 20°C).
- Contact to KANAT PAINTS & COATINGS Project Group in case surface preparation is not applicable either by blasting or mechanical.
- If maximum recoating time is exceeded abrade surface, if the surface is highly contaminated apply water cleaning before recoating.
- DFT of the paint system should not exceed 90 microns for maximum high temperature resistance.

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