

## 53000 KANTHERM 1000

## PRODUCT DESCRIPTION

**53000 KANTHERM 1000** is a two component titanium catalyzed inorganic ceramic copolymer, multipolymeric matrix inorganic coating with high volume solids. It is suitable for preventing corrosion under insulation. It is surface tolerant and UV resistant as a one coat coating or primer of suitable coating system. Service temperature range from -196 to 650°C based on the substrate.

## RECOMMENDED USE

It is used as a protective coating on heated steel surfaces;

- Under insulation,
- Carbon and stainless steel surfaces,
- Surfaces with cyclic temperature exposure from -196°C to 650°C.

## PRODUCT CHARACTERISTICS

|                                |  |
|--------------------------------|--|
| Finish:<br>Matt                | Density (g/ml)<br>1,86±0,10                                  |
| Colour:<br>Grey, Metallic      | Spreading Rate (m <sup>2</sup> /l)<br>7,50 (100 microns DFT) |
| Thinner:<br>Kanat Thinner 0672 | Flash Point<br>41°C  |
| Volume Solids (%)<br>75±2      | VOC ( Volatile Organic Content)<br>326 g/l                   |
|                                | Application Methods<br>Airless Spray, Brush                  |
|                                | Pot Life (20°C)<br>6 hours                                   |

## DRYING SCHEDULE(\*)

(100 microns/4 mils film thickness)

|      | Dry to Touch | Hard Dry |
|------|--------------|----------|
| 5°C  | 8 hours      | 36 hours |
| 15°C | 3 hours      | 20 hours |
| 25°C | 2,5 hours    | 6 hours  |
| 35°C | 2 hours      | 4 hours  |

Drying values are valid for defined dry film thickness and below 85% relative humidity.

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

## PACKAGING

One kit of **53000 KANTHERM 1000** is 4,50 l.  
One pail of **53000 KANTHERM 1000** component A is 4,45 l.  
One can of **KANTEX HARDENER 0515** component B is 0,05 l.

## SHELF LIFE

Part A–1 year, Part B–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.

## 53000 KANTHERM 1000

### SURFACE PREPARATION

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

**New Surfaces:** Steel – Power tool cleaning to St 2 – St 3 according to ISO 8501-1. Surface blasting to nearwhite metal surface cleanliness according to SSPC-SP10 or ISO 8501-1 Sa 2½ will improve performance. Blast profile on steel should be 25-50 microns in depth. Depending on ambient conditions, power tool cleaned or blasted surfaces must be primed in maximum 5 hours with **53000 KANTHERM 1000** Water jetting to a minimum degree of Wa 2 ½ (ISO 8501-4-2006) is also applicable as an alternative to abrasive blasting. A flush rust degree of maximum M (ISO PAINTS & COATINGS Project Group for the stainless steel surfaces.

**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.

### APPLICATION PROCEDURES (Mixing Procedure)

This is a two-component paint. Do not mix more material than you plan to use within the listed pot life. Complete containers must be mixed at one time

**DO NOT MIX PARTIAL QUANTITIES FROM CONTAINERS OR PROPER COMPONENT RATIOS MAY NOT BE OBTAINED.**

Prior to mixing, components A Base and B Hardener should be at room temperature. Combine 0,05 parts by volume of Part B Hardener with 4,45 parts by volume of Part A Base. Homogenize the mixture with a power mixer, add thinner if necessary. Mixed product must be used within 6 hours (20°C).

### MIXING RATIO

Base 53000 : Curing Agent 0515  
89 : 1 by volume

### 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:** 85% 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. Do not apply more than 200 microns (8 mils) WFT to prevent sagging. Overcoating interval is 6 hours at 20°C. 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.

## 53000 KANTHERM 1000

## CLEAN UP

KANAT THINNER 0644  
KANAT THINNER 0672

## APPLICATION EQUIPMENT

(The table is a guide for 20°C)

| Application Equipment  | Airless Spray | Trowel Roller |
|------------------------|---------------|---------------|
| Thinner maximum        | -             | %5            |
| Pressure minimum (bar) | 150           | —             |
| Nozzle(inch)           | 0,017-0,023   | —             |

## PRECAUTIONS

- Contact KANAT PAINTS & COATINGS Project Group in case surface preparation is not applicable either by blasting or mechanical cleaning.
- If maximum recoating time is exceeded abrade surface, if the surface is highly contaminated apply pressurized fresh water cleaning before recoating.

**Disclaimer:** This product is for professional users only. In case of non-compliance with the instructions or conditions set forth in this document and other additional documents regarding the application of the product, Kanat Paints & Coatings does not accept any responsibility for any damage including but not limited to performance issues. Kanat Paints & Coatings owns all trademarks, patents and licenses mentioned in this document. All values and ratios stated are given in accordance with other values and ratios in the document. All information regarding the product is correct and appropriate to the best of Kanat Paints & Coatings' knowledge, but the factors that are not related to production process, especially external factors, and that may affect the application or use are beyond the control of Kanat Paints & Coatings. It is the user's responsibility to check the validity of this document before using the product. Technical data and instructions published by Kanat Paints & Coatings may change without prior notice. Please contact Kanat Paints for current versions or additional technical data and instructions.