

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. On carbon steel it can be used up to 650°C continuously and 750°C intermittent. It is surface tolerant and UV resistant as a one coat coating or primer of suitable coating system. Service temperature range from -196 to 1000°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,
- Hot surfaces with 540°C continuous exposure and 600°C short term exposure,
- Surfaces with cyclic temperature exposure from -196°C to 540°C.

PRODUCT CHARACTERISTICS

Finish: Matt	Density (g/ml) 1,86±0,10
Colour: Grey, Metallic	Spreading Rate (m ² /l) 7,50 (100 microns DFT)
Thinner: Kanat Thinner 0672	Flash Point 41°C
Volume Solids (%) 75±2	VOC (Volatile Organic Content) 326 g/l
	Application Methods Airless Spray, Brush
	Pot Life (20°C) 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 years, Part B–6 months maximum shelf life when the material is stored indoors at 25°C in unopened original containers. Store the product in a dry, well ventilated place.

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 – 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.

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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.

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