

## 14700 KANEPOX UNIFAST MIO

## PRODUCT DESCRIPTION

**14700 KANEPOX UNIFAST MIO** is an epoxy based, two component, high built coating containing zinc phosphate and micaceous iron oxide (MIO). It is specifically designed for fast dry even at low temperatures (down to -5°C).

## RECOMMENDED USE

- Primer and midcoat of the paint systems for corrosion protection of steel surfaces.
- It could also be applied as a part of anti-corrosive paint system alone or with other primers or midcoats where fast drying and fast recoating is of concern.
- Complies with the requirements of LEED V4 – Low Emission Substances (substances with a maximum VOC content of 250 g/l)

## PRODUCT CHARACTERISTICS

<b>Finish:</b> Matt	<b>Density (g/ml)</b> 1,46±0,10
<b>Colour:</b> Grey, Oxide Red	<b>Spreading Rate (m<sup>2</sup>/l)</b> 7,80 (100 microns DFT)
<b>Thinner:</b> Kanat Thinner 0620 (Low Temp.) Kanat Thinner 0625 (High Temp.)	<b>Flash Point</b> 39°C
<b>Mixing Ratio (by volume)</b> 16,67 Parts A Comp. + 3,33 Parts B Comp.	<b>VOC ( Volatile Organic Content)</b> 205 g/l
<b>Mixed Product;</b> Volume Solids (%) 78±2	<b>Application Methods</b> Airless spray, Roller
	<b>Pot Life (20°C)</b> 3 hours

## DRYING SCHEDULE(\*)

(100 microns/4 mils film thickness)

	Dry to Touch	Hard Dry	Dry to Over Coat Minimum
-5°C	13 hours	30 hours	24 hours
0°C	10 hours	21 hours	18 hours
5°C	7 hours	15 hours	12 hours
15°C	2 hours	5 hours	3,5 hours
25°C	1,5 hours	3 hours	2 hours
35°C	1 hour	2 hours	1,5 hours

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

Fully Cured: 4 days (20°C)

(\*) Drying time depends on temperature, humidity and film thickness.

## PACKAGING

One kit of **14700 KANEPOX UNIFAST MIO** is 20 l.

One pail of **14700 KANEPOX UNIFAST MIO** component A is 16,67 l.

One can of **KANEPOX HARDENER 0373** component B is 3,33 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.

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### SURFACE PREPARATION

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

**New Steel Surfaces:** Surfaces should be blasted to near-white metal surface cleanliness according to SSPC-SP10 or ISO 8501-1 Sa 2½. Surface cleanliness of St 2–St 3 according to ISO 8501-1 is sometimes allowed depending upon the conditions. Depending on ambient conditions, blasted surfaces must be primed in maximum 5 hours with **14700 KANEPOX UNIFAST MIO**.

**Primed Surfaces:** Follow the overcoating times for primer, if maximum recoating time is exceeded, abrade surface before top coating. The surfaces must be clean and dust free. Remove all the dust, dirt and other foreign material accumulated during the production and storage by pressurized fresh water cleaning. Midcoat is then applied to completely dry surface.

**Previously Painted Surfaces:** If the aged coating is in a good condition, it is slightly sanded and cleaned by pressurized fresh water cleaning to remove the dust and other contaminations. Otherwise, remove all the cracked and peeling paint by using hand tools to a cleanliness of St 2–St 3 according to ISO 8501-1. If applicable blast cleaning to Sa 2–Sa 2½ according to ISO 8501-1 level to get better results. Water jetting is also applicable as an alternative to abrasive blasting.

**The Surfaces Other Than Steel:** Contact KANAT Project Group for the galvanized, aluminium, plastic surfaces.

**Rusty Surfaces:** Contact KANAT 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. **14700 KANEPOX UNIFAST MIO** can be safely used for touch-up.

### 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 3,33 parts by volume of Part B Hardener with 16,67 parts by volume of Part A Base. Homogenize the mixture with a power mixer, add thinner if necessary and wait 10-15 minutes for induction before use. Mixed product must be used within 3 hours (20°C).

### MIXING RATIO

Base 14700 : Curing Agent 0373  
5:1 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. Maximum coating interval is 3 months. Do not apply more than 250 microns (10 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.

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## CLEAN UP

KANAT THINNER 0644, KANAT THINNER 0620,  
KANAT THINNER 0625

## APPLICATION EQUIPMENT

(The table is a guide for 20°C)

Application Equipment	Airless Spray	Roller
Thinner maximum	%7	% 7
Pressure minimum (bar)	200	–
Nozzle(inch)	0,017-0,021	–

## PRECAUTIONS

- Contact KANAT Project Group in case surface preparation is not applicable either by blasting or mechanical.
- Best adhesion between coats is achieved if paint is applied before full curing of the previous coat.
- Recoating period is minimum 2 hours and maximum 3 months (20°C). Recoating interval depends on temperature, humidity and film thickness. If maximum recoating time is exceeded abrade surface, if the surface is highly contaminated apply pressurized fresh water cleaning before recoating.
- Condensation forming on the coating during early times of curing may result in longer cure times, solvent entrapment, premature failure, discoloration or a surface haze or blush that must be removed before recoating.

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