19300 KANEPOX NOVA PREMIUM

PRODUCT DESCRIPTION

19300 KANEPOX NOVA PREMIUM is a novalac (phenolic) epoxy-polyamine based, two component, high-built coating with excellent chemical resistance. It is most often used in those applications where chemical, solvent and water resistance are required. It exhibits excellent curing characteristics at low temperatures (down to -5°C) and/or high humidity without any surface defects such as blushing, cracking etc..

RECOMMENDED USE

This product, which has high chemical resistance, can be used in the following areas;

- Fuel tanks interior
- Crude oil tanks and pipelines (up to 90°C)
- Wide range of solvent storage tanks
- (Hot) Water tanks and pipelines (up to 95°C)
- Saline water tanks and pipelines
- Insulation priming of hot surfaces (up to 260°C dry temperature)

It can be applied as a primer, topcoat and one coat in paint systems where Im1 to Im4 immersion categories and C2 to C5 corrosion categories are required according to ISO 12944-5 and ISO 12944-9 Standards.
Complies with the requirements of LEED V4 – Low Emission Substances (substances with a maximum VOC content of 250 g/l)

CERTIFICATES

Certificate of suitability for use in JP-8 jet fuel tanks (Exova) according to MIL-PRF-4556F Standard.

Atlas cell test certificate (Exova) according to ASTM D:6943:2003 Standard.

PRODUCT CHARACTERISTICS

Finish:
Semi-Matt

Colour:
Cream, Grey, Oxide Red

Thinner:
Kanat Thinner 0620 (Low Temp.)
Kanat Thinner 0625 (High Temp.)

Mixing Ratio (by volume)
16 Parts A Comp. + 4 Parts B Comp.

Mixed Product;
Volume Solids (%)
78±2

Density (g/ml)
1,50±0,10

Spreading Rate (m^2/l)
7,80 (100 microns DFT)

Flash Point
40°C

VOC (Volatile Organic Content)
190 g/l

Application Methods
Airless spray, Roller

Pot Life (20°C)
1.5 hours

DRYING SCHEDULE(*)

(100 microns/4 mils film thickness)

	Dry to Touch	Hard Dry	Dry to Over Coat Minimum
-5°C	36 hours	72 hours	48 hours
0°C	24 hours	48 hours	36 hours
5°C	12 hours	24 hours	24 hours
15°C	9 hours	18 hours	12 hours
25°C	6 hours	12 hours	8 hours
35°C	3 hours	8 hours	6 hours

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

Fully Cured: 7 days (20°C)
(*) Drying time depends on temperature, humidity and film thickness.

PACKAGING

One kit of **19300 KANEPOX NOVA PREMIUM** is 20 l.

One pail of **19300 KANEPOX NOVA PREMIUM** component A is 16 l.

One can of **KANEPOX HARDENER 0362** component B is 4 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. Blast profile on steel should be 75-100 microns in depth. Applicable directly without primer on cleaned surfaces of small tanks and warehouses where paint application could be done in the same day. For surface cleaning which lasts a few days or longer, ~40 microns DFT novalac holding primer should be applied as a one coat primer.

Concrete: Remove loose, unsound concrete, laitance and create a surface profile by either acid etching, abrasive blasting or mechanical grinders and apply pressurized fresh water cleaning. A properly selected sealer–Kanfloor Sealer– is applied. Surfaces must be dry and clean before application.

The Surfaces Other Than Steel: Contact KANAT Project Group for the galvanized, aluminium, plastic 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. **19300 KANEPOX NOVA PREMIUM** can be safely used for touch-up.

APPLICATION PROCEDURES (Mixing Procedure)

This is a two-componentpaint. 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 (16-24°C). Combine 4 parts by volume of Part B Hardener with 16 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 1.5 hours (20ºC).

MIXING RATIO

Base 19300 : Curing Agent 0362
4:1 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 21 days. Do not apply more than 300 microns (12 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, KANAT THINNER 0620, KANAT THINNER 0625

APPLICATION EQUIPMENT

(The table is a guide for 20°C)

Application Equipment	Airless Spray	Roller/ Brush
Thinner maximum	7%	7%
Pressure minimum (bar)	200	-
Nozzle(inch)	0,017-0,023	-

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PRECAUTIONS

• Contact to KANAT PAINTS & COATING Project Group in case surface preparation is not applicable either by blasting or mechanical.

• Recoating period is minimum 12 hours and maximum 21 days (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.

• High temperatures decrease resistance properties of epoxy based products. Epoxy based products also have a tendency to yellowing, chalking and have limited gloss retention on exterior surfaces.

• System thickness shall not exceed 300 microns DFT when used as an insulation primer, if service temperature exceeds 175°C (maximum 260°C), dry film thickness shall not exceed 125 microns and applied paint film shall be cured at ambient conditions (7 days/20°C) before exposing to high temperatures. Darkening of color at temperatures over 150°C may be observed but this does not affect performance of the coating.

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