

18521 KANEPOX LINING FREE

PRODUCT DESCRIPTION

18521 KANEPOX LINING FREE is an epoxy-polyamine based, two component, solvent-free coating with excellent resistance to fresh water, sea water. It can be applied at high film thicknesses. It exhibits excellent curing characteristics at low temperatures with daily temperature fluctuations and/or high humidity without any surface defects such as blushing, cracking etc. It is free of benzyl alcohol and nonyl phenol.

RECOMMENDED USE

It is used as a protective coating in the structures listed below;

- Potable and sea water pipelines & storage tanks.
- Inner surfaces of drinking water and domestic water storage tanks in industrial facilities and ships.
- Steel and concrete surfaces.

It can be used as a one coat from Im1 to Im4 immersion categories according to ISO12944-5 and 12944-9.

Complies with the requirements of LEED V4 – Low Emission Substances (substances with a maximum VOC content of 250 g/l)

CERTIFICATES

- WRAS (NSF) - Certificate of compatibility with potable water tested according to BS 6920 Part 1 and 2
- AWWA C210 (PRA) – Certificate of internal coating suitability for steel water pipelines
- Certificate of compliance with Italy Hygiene Standard DM 174 Regulation
- Certificate of compliance with Spanish Hygiene Standard RD 140/2003 Criteria

PRODUCT CHARACTERISTICS

Finish: Gloss	Density (g/ml) 1,25±0,10
Colour: White, Cream, Oxide Red, Grey, Blue	Spreading Rate (m ² /l) 3,33 (300 microns DFT)
Thinner: -	Flash Point >100°C
Mixing Ratio (by volume) 400 Parts A Comp. + 200 Parts B Comp.	VOC (Volatile Organic Content) 0 g/l
Mixed Product; Volume Solids (%) ~100	Application Methods Airless spray, Roller/Brush
	Pot Life (20°C) 60 minutes

DRYING SCHEDULE(*)

(300 microns/12 mils film thickness)

	Dry to Touch	Hard Dry	Dry to Over Coat Minimum
5°C	36 hours	96 hours	48 hours
15°C	16 hours	72 hours	24 hours
25°C	10 hours	36 hours	14 hours
35°C	7 hour	24 hour	10 hour

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 **18521 KANEPOX LINING FREE** is 600 l.

Two barrels of **18521 KANEPOX LINING FREE** component A is 400 l.

One barrel of **KANEPOX HARDENER 0362** component B is 200 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 holding primer should be applied as a onecoat primer.

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

APPLICATION PROCEDURES (Mixing Procedure)

Homogenize A and B components separately by mixing. Temperature of A and B component shall be minimum 25°C and maximum 45°C. Homogenized A and B components shall be pumped to metering unit to provide constant volumetric mixing.

APPLICATION PROCEDURES (Plural airless spray)

18521 KANEPOX LINING FREE suitable to be used with plural airless spray equipment based on volumetric mixing. A and B components are supplied in separate drums.

MIXING RATIO

Base 18521 : Curing Agent 0362
2:1 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 10-15% thickness difference between wet film and dry film is possible. Staff should wear gas masks and use ex-proof equipment when working in tanks.

Maximum coating interval is 7 days.

Do not apply more than 1000 microns (40 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

APPLICATION EQUIPMENT

(The table is a guide for 20°C)

Application Equipment	Airless Spray	Roller/ Brush
Thinner maximum	-	-
Pressure minimum (bar)	225	-
Nozzle(inch)	0,021-0,033	-

PRECAUTIONS

- Contact KANAT Project Group for procedures, pre-treatments and durations for potable water tanks to take into service.
- It is recommended to use foil while measuring the difference between wet film thickness and dry film thickness.
- Recoating period is minimum 12–14 hours and maximum 7 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.
- 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.
- Contact KANAT Project Group for field touch-up and maintenance procedures.
- Improper storage conditions, exposure to air due to packaging, or approaching the expiration date may result in color changes (especially in red shades) and the formation of unpleasant odors in light-colored paints.

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