

UNEPOX TAR 2K

High Build Solventfree Tar Epoxy Topcoat

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DESCRIPTION

UNEPOX TAR 2K is a coal tar based solventfree epoxy aromatic polyamine adduct cured, two-component, high build coating which is designed to help to prevent oxidative corrosion on dry or especially immersed conditions in sea water.

PRODUCT FEATURES

UNEPOX TAR 2K helps prevent corrosion any kind of steel construction in various industrial facilities including submersed structures into water. It adheres well and it is resistant to physical and chemical corrosion of the existed environments.

UNEPOX TAR 2K can be used where the requirement of protectionthe substrate is prime concern against chemicals, such as alkaine liquids, weak acids, crude oil, salty and fresh water.

If the coating is exposed to direct sunlight, chalking and color fading may occur.

APPLICATION AREAS

- Steel profiles or metal plates of vessels where continuously or frequently contact to sea water.
- Above sea level of seaports, bridges, and harbors Dam and sewage facilities.
- Manhole covers.
- Crude oil and storing tanks.
- Inner and outer surfaces of waste water and used water pipes.
- Jetty piles.

COLOR SELECTION

Only black color available

TECHNICAL DATA

BASIC DATA(for mixed product at 23 °C)

Mass density	approx. 1,40 g/cm ³
Solids content	approx. 69 % by volume 73 % by Weight
Drying info for 100 microns DFT	Fast dry 30-40 min. Touch dry 3-4 hours Cures starts at 24th hour
Pot Life	@23°C approx. 4-8 hours
Overcoating interval	Min.24 hours Max.48 hours
Full cure after	7 days
Consumption 100 microns DFT	180 gr/m ² ± 10 gr/m ²
Flash Point	>21°C
Recommended DFT	100 microns at one layer
Mixing Ratio (by Weight)	84:16 A:B
Application Method	Airless, Brush, Roller

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MIXING PROCEDURE

Mixing Ratio: 84A/16 B by weight

- Mix each component separately before mixing. Do not dilute by thinners.
- Add component B (Hardener) to component A and mix for three minutes with an electric mixer.
- Mix only the amount of material that can be used in 30-40 minutes.

Note: Use a low-speed electric mixer (200-300 rpm) to mix UNEPOX TAR 2K

SURFACE PREPARATION

Surface preparation is the most critical part of the job for performance. All substrates must be properly prepared. The work should be done by trained or experienced contractors or applicators. Please refer to BOYTEM service department for application. Special attention should be paid to the following:

Oil and grease on the metal surfaces should be cleaned off with detergent or water vapor, whereas salt and other kind of contaminants should be cleaned off with high pressure fresh water wash. Rust on the surface should be sand blasted following ISO 8501 standard or Swedish standards of SA 2 ½. Application takes place with brush, roller or with a spray gun.

Additionally, temperature and humidity conditions of the area where UNEPOX TAR 2K system will be applied should be checked. A minimum of 10 °C substrate temperature and an optimum room temperature of 20 °C are required for proper curing of UNEPOX TAR 2K system.

PRE-APPLICATION RECOMMENDATIONS

- The surface should be free from hydrostatic pressure, moisture permeability, paint, hardening agents, and other foreign substances.
- Application temperature of this product should be in the range of 10°C to 35°C to get the expected good result.
- Avoid application when relative humidity is above 90%.
- To help prevent condensation; surface temperature has to be at least +3°C above the dew point.
- Keep in mind that windy weather will increase the consumption. Surface temperature must be at least 10°C and 45°C at most.

APPLICATION PROCEDURE

For maximum adhesion to the prepared surface, BOYTEM recommends using UNEPOX TAR 2K system with an appropriate primer. The primer will also help to insulate air in the concrete and prevent gas release and air bubbles in the finished system. For suitable primer selection for application on concrete floors, refer to UNEPOX PRIMER 2K, UNEPOX PRIMER WB 2K, and UNEPOX 128-05 SF PRIMER 2K, UNEPOX ZC PRIMER 2K, UNEPOX ZRP PRIMER 2K or UNEPOX ZP PRIMER 2K data sheets available on our website.

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PACKAGING

Total of 20 kg (21 kg A + 4 kg B) in original metal tin packaging.

STORAGE

The product is stored in its original closed packaging in closed, cool storage facilities within the temperature range of 10°C to 35°C. The shelf life (guarantee) is 12 months from the date of production in a cool and dry place.

CLEANING

All tools and equipment should be cleaned before the materials gel. Use UP-002 Cleaning thinner.

For further assistance, please contact BOYTEM TECHNICAL DEPT.

SAFETY DATA

- Component A contains epoxy resin, Component B contains amides.
- May cause skin sensitivity or other allergic reactions.
- Adequate ventilation is required, especially when the material is heated or sprayed.
- Precautions should be taken to prevent any contact with eyes or skin.
- Wear protective clothing, goggles, mask, and gloves, and/or use barrier creams.
- Keep containers closed when not in use.
- Thoroughly wash hands and equipment after use.

NOTE

The explanations provided in this technical data sheet are based on test evaluations and results conducted according to relevant standards, intended to guide applicators. As workmanship, weather conditions, construction, equipment used, and other variables that may affect results are entirely beyond our control, UNICA does not provide any explicit or implicit warranty regarding this material. UNICA only guarantees that the material conforms to its product specifications, and its sole responsibility towards the buyer or user of this product is limited to the replacement value of the product in case of manufacturing defects. Under no circumstances shall UNICA be liable for any direct or incidental, special, or consequential injury, loss, or damage arising from the material or its application. UNICA shall not be held responsible in any way for any defects, alterations, or changes in conditions in the substrate where its products are applied.