L'UNICFLOOR · COAL-TAR EPOXY

Unepox TAR 2K

High-build solvent-free coal-tar epoxy for immersed steel

COLOUR
Black
only colour available

1.40 g/cm³	69 %	3–4 h	100 µm	180 g/m²
Mass density (23 °C)	Solids (by volume)	Touch dry, 100 µm	Recommended DFT, 1 layer	Consumption at 100 µm DFT

Product description

UNEPOX TAR 2K is a coal-tar based, solvent-free epoxy coating cured with an aromatic polyamine adduct. This two-component high-build coating helps prevent oxidative corrosion in dry and especially immersed conditions in sea water.

Application areas

- Steel profiles and plates of vessels in contact with sea water
- Seaports, bridges and harbours above sea level; dams and sewage facilities
- Manhole covers and jetty piles
- Crude oil and storage tanks
- Inner and outer surfaces of waste-water pipes

Advantages

- Protects steel in immersed conditions
- Resistant to physical and chemical corrosion
- Salt- and fresh-water resistant
- Good adhesion
- Resists alkaline liquids, weak acids and crude oil
- Airless, brush or roller

Position in the system

Coal-tar epoxy coat
UNEPOX TAR 2K · 100 µm DFT per layer — THIS PRODUCT

Substrate
Steel blast-cleaned to ISO 8501 Sa 2½

L'unicfloor marine

Corrosion protection for immersed steel

ISO 8501 · Sa 2½
Surface preparation

unica | Boytem
BOYTEM BOYA VE KİMYA SANAYİ TİCARET LİMİTED ŞİRKETİ
Factory: Gümüşova OSB 1. Sk. No:4 İç Kapı No:1 Gümüşova / Düzce – TÜRKİYE
T +90 216 304 03 05 · F +90 216 304 12 15
unicaboya.com · info@unicaboya.com

Technical data (at +20 °C)

Colour	**Black**	Overcoating interval	**min. 24 h – max. 48 h**
Mass density (23 °C)	**approx. 1.40 g/cm³**	Full cure	**7 days**
Solids	**approx. 69 % vol. · 73 % wt.**	Consumption (100 µm DFT)	**180 ± 10 g/m²**
Fast dry (100 µm)	**30–40 min**	Flash point	**> 21 °C**
Touch dry (100 µm)	**3–4 h**	Mixing ratio (by weight)	**84 A : 16 B**
Curing starts	**after 24 h**	Application temperature	**+10 °C to +35 °C**
Pot life (23 °C)	**approx. 4–8 h**	Shelf life	**12 months**

Chemical resistance

Alkaline liquids · Weak acids · Crude oil · Salt water · Fresh water

Application procedure

01

Surface preparation

Remove oil and grease with detergent or steam, salts with high-pressure fresh water. Blast rust to ISO 8501 / Sa 2½. Surface ≥ 3 °C above dew point.

02

Mixing

Mix each component, add B to A (84 : 16 by weight) and mix 3 min at 200–300 rpm. Do not dilute. Mix only what can be used in 30–40 min.

03

Application

Apply by airless, brush or roller – recommended 100 µm DFT in one layer. Use an appropriate primer on concrete.

04

Recoating

Overcoat after min. 24 h, max. 48 h. Full cure after 7 days.

Mixing ratio (by weight)

84 parts | **16 parts**

- **84 parts** — Component A – coal-tar epoxy
- **16 parts** — Component B – polyamine adduct

Do not dilute with thinners.

Application conditions
+10 °C – +35 °C
Substrate min. +10 °C (max. +45 °C); RH max. 90 %; optimum room temperature +20 °C.

Film thickness
100 µm DFT
Recommended per layer – 180 ± 10 g/m².

Drying (100 µm)
3–4 h
Fast dry 30–40 min; curing starts after 24 h.

unica | Boytem
BOYTEM BOYA VE KİMYA SANAYİ TİCARET LİMİTED ŞİRKETİ
Factory: Gümüşova OSB 1. Sk. No:4 İç Kapı No:1 Gümüşova / Düzce – TÜRKİYE
T +90 216 304 03 05 · F +90 216 304 12 15
unicaboya.com · info@unicaboya.com

Important: exposure to direct sunlight may cause chalking and colour fading. Windy weather increases consumption.

Points to consider

- Surface must be free of hydrostatic pressure, moisture transmission, paint and hardening agents.
- Do not apply when relative humidity is above 90 %.
- Surface temperature at least +3 °C above dew point.
- For concrete, use a suitable Unica epoxy primer (e.g. UNEPOX PRIMER 2K, **UNEPOX PRIMER WB 2K**, **UNEPOX 128-05 SF PRIMER**).

Packaging

- Kit: 21 kg component A + 4 kg component B in metal tins

Storage

- Store in original closed packaging in cool, closed areas at +10…+35 °C.
- Shelf life: 12 months from production.

Safety

- Component A contains epoxy resin, component B amides – may cause skin sensitisation.
- Ensure adequate ventilation, especially when heated or sprayed.
- Wear protective clothing, goggles, mask and gloves; avoid eye and skin contact.
- Keep containers closed; wash hands and equipment after use.

Cleaning

- Clean tools before the material gels with UP-002 cleaning thinner.

LEGAL NOTE

The explanations provided in this technical data sheet are based on test evaluations and results conducted according to relevant standards and are 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.