

# EUNICOTE PE 11

TWO COMPONENT HIGH SOLIDS COAL TAR EPOXY

## DESCRIPTION

EUNICOTE PE 11 is a solvent-free, two-pack coating system that combines epoxy resin with coal tar pitch extension, incorporating a pre-weighed epoxy resin and a tar-modified polyamine hardener. This formulation is crafted to deliver a high-integrity protective coating with chemical-resistant properties, making it particularly suitable for sewage for use on concrete and steel surfaces.

## USES

EUNICOTE PE 11 serves as a waterproof coating for:

- It provides protection for sewage tanks through fiberglass laminate.
- Manhole access points, pipes
- Metals in marine environments
- Protection for car park floors
- It creates anti-slip wearing courses by incorporating broadcast aggregate

## ADVANTAGES

- Protective coating characterized by high quality and a substantial build, featuring commendable chemical resistance
- Versatility is a key advantage, as it is suitable for application on various substrates, facilitating use through methods like brush, roller, or airless spray
- Exceptional adhesion and physical strength contribute to the robust protective properties of the coating
- Can be further enhanced by lamination with glass fiber mat, enabling the creation of protective tank linings

## STANDARD

EUNICOTE PE 11 is in compliance with ASTM C881, Type IV, Class C.

## TYPICAL PROPERTIES

Appearance/ Colour	Black
<b>Specific Gravity (@20°C)</b>	
Resin	1.34 ± 0.02
Hardener	1.14 ± 0.02
Mixed	1.28 ± 0.02
Flash Point	> 100°C
Pot Life	80 min (@10°C); 40 min (@30°C)
Touch Dry Time	18 hours (@10°C); 4 hours
Full Cure	48 hours (@10°C); 24 hours
Recoat Time	8 - 24 hours
<b>Diffusion Resistance Coefficient (ASTM C881)</b>	
RCO <sub>2</sub> , 200 DFT	321 m
RO <sub>2</sub> , 200 DFT	97 m
RO <sub>2</sub> , 500 DFT	334 m
<b>After 7 days of curing in air at 20°C (ASTM C881)</b>	
Tensile Strength	52 MPa
Elongation at Break	31%
Bond Strength	2 Days Moist Cure: 7.5 MPa
Water Absorption:	Nil
Thermal Compatibility:	Pass

## APPLICATION

**Application Conditions:** Temperature between 5°C and 75°C.

### Surface Preparation

Ensure that all surfaces are dry, sound, and free of oil, grease, and other contaminants. For concrete surfaces, it is recommended to grit blast or flame scale to eliminate surface laitance. Steel surfaces should undergo sandblasting to remove rust and scale, achieving a bright steel finish (SA 2½). Thoroughly remove all dust before application to ensure proper adhesion.

## CHEMICAL RESISTANCE

Typical data at a solution temperature of 20°C are given below:

Solution	EUNICOTE PE 11
Fresh/Saline Water	E
Diesel Oil	E
Sodium Hydroxide 30%	E
Salt Solution	E
Hydrochloric Acid 10%	E
Sulphuric Acid 10%	VG
Ammonia	E
Formic Acid 5%	P
Sewage	E
Toluene	P

### Key

E = Excellent; no change    VG = Very good

P = Poor; heavy attack

## Application Instructions

To apply EUNICOTE PE 11, use a brush, roller, or airless spray with a thinned prime coat on a prepared substrate. Apply the primer evenly at 0.15 kg/m<sup>2</sup> to 0.20 kg/m<sup>2</sup> and let it dry for 6 to 24 hours. For cracks or damaged concrete, apply two coats of EUNICOTE PE 11 for protection. If the finish coat cannot be applied within 48 hours, use fine dried sand on the wet primer. Finish coats should use unthinned resin and hardener, applied at 0.20 kg/m<sup>2</sup> to 0.30 kg/m<sup>2</sup>. For tanking applications, follow the prime coat with an unthinned coat and glass fiber mat. For non-skid surfaces, apply EUNICOTE PE 11 at 0.5 kg/m<sup>2</sup> and Bauxite Aggregate at 3 kg/m<sup>2</sup>.

## COVERAGE

The coverage of EUNICOTE PE 11 is 0.25 kg/m<sup>2</sup> at 200 µm.

## PACKAGING

EUNICOTE PE 11 is supplied in a two-pack system, with resin and hardener stored in separate containers. Various pack sizes are available, providing options for 6 kg and 28 kg of mixed resin. Additionally, EUNICOTE PE 11 thinners are supplied in 25-liter containers for convenience in handling and application.

## STORAGE

EUNICOTE PE 11 should be stored and maintained in a well-ventilated, cool, and dry environment, shielded from extreme temperature variations. It is essential to avoid smoking or introducing open flames in the storage vicinity. To maintain safety, store the product in closed containers.

The shelf life of EUNICOTE PE 11 is 12 months from the date of production.

## HEALTH AND SAFETY

For more information, please check the Material Safety Data Sheet.

## CONTACT

Al-Faiha for Engineering Products is the exclusive licensee manufacturer for ECA.

For more information, please contact us at [techsupport@alfaihaengineering.com](mailto:techsupport@alfaihaengineering.com).