



R 816 CE

Epoxy Coal Tar Coating

DESCRIPTION

R 816 CE is a two component, epoxy resin system modified coal tar. It acts as an excellent protective coating for steel and concrete surfaces. Additionally, it provides very good corrosion, chemical, abrasion, scratch resistance.

USES

To provide a heavy duty protection, waterproofing, corrosion resistant and flexible coating for concrete and metal structures in:

- Crude oil storage tanks/ underground structures
- Dam, barrage gates, penstocks
- Foundation walls and sumps
- Sewage treatment plant, underground pipelines
- Splash zones in docks and harbors

FEATURES

- Easy application- brush or airless spray
- Anti corrosive and preventive coating
- Excellent resistance to corrosion, impact, thermal shock and abrasion
- Excellent resistance to sea/ salt water, oil, acids, alkalis, crude oil and minerals
- Compatible with corrosion protection
- Seamless application

TECHNICAL CHARACTERISTICS @ 25°C

Property	Results
Colour	Black
Mixing Ratio (Comp A: Comp B)	3:1 by volume
Volume Solids, %	75 ±3
Specific Gravity, ASTM D 1475	1.50 ±0.05
Potlife ASTM D 2471	3-4Hours
Flashpoint, °C	
Part A	>30
Part B	>30
Curing time @ 30°C	
Touch dry, hrs	4
Recoat, hrs	8 - 30
Full Cure, days	7
Performance Data	
Elongation, % ASTM D 638	30-35
Tensile Strength, Mpa ASTM D 638	3.5-4.0
Shore A hardness 7D ASTM D 2240	75 ±5
Adhesion pull off on steel, Mpa ASTM D 4541	6-8

Abrasion resistance 1000 cycles, CS 17, mg loss ASTM D 4060	115 ±10
Flexibility, ASTM D 522	3.175 mm Passes
Salt spray, 500 hrs ASTM B 117	Passes
Weatherability, QUV ASTM G 154	1000 hours pass
Water resistance, immersion ASTM D 870	Passes
Immersion test, AWWA C 210 -Deionised Water (DIW) -1% H ₂ SO ₄ -1% NaOH	No blistering/ Peeling/ De-bonding
Resistance to micro-organism ASTM G 21	Passes
Application Temperature	
Substrate temperature	10°C to 40°C
Ambient temperature	10°C to 40°C
Substrate moisture content	< 5%

COVERAGE ESTIMATES

Coverage

2.5m²/L for 300 ± 30µ

Pack size

20L (Part A- 15L and Part B-5L)

APPLICATION INSTRUCTION

Surface Preparation

The surface to be coated must be made free of oil, grease, rust, laitance and any other contaminants that may hinder the bond. Sand blasting or use of power tools is recommended to achieve the required surface. Ensure that the surface is clean & dry before proceeding with the coating. Any visible blowholes, pin holes and surface defects must be filled with EP 305. Ensure the ambient temperature is not less than 10°C and not more than 40°C at the time of application

MIXING

Stir the contents of Part A (Resin) and Part B (Hardener) individually. Mix three parts of Resin with one part of Hardener by volume for 3-5 minutes and stir to obtain a smooth homogeneous mix is obtained. Apply the mixed material without any dilution with thinner to avoid reduction in DFT, sag resistance and volume solids

Application of Material

Apply the mixed R 816 CE using a brush, roller or airless spray on the prepared surface and allow it cure. The 2nd coat if required shall be applied only after the first coat has dried (4-7 hrs) at 30°C. An additional coat is recommended for areas where very high chemical resistance is required. Ensure that the mixed material is consumed within 3-4 hours. Allow the coating to cure

R 816 CE

Epoxy Coal Tar Coating

for 7 days to air dry. If the second coat application is delayed by 16 hrs, abrade the previous coat to give adequate mechanical key and wipe with suitable solvent before application.

CLEANING

R 816 CE can be removed from tools and equipment by using RTC 100 immediately after use. Any hardened material will need to be removed mechanically.

STORAGE AND SHELF LIFE

R 816 CE has a shelf life of 12 months in the original unopened containers. The product should be kept in a cool, well ventilated area away from heat, direct sunlight and sources of heat.

PRECAUTIONS

During mixing and application the following precautions should be observed: Ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and by using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water. Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to resin-based materials. Always wear gloves and eye / face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL/SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations. For further information please refer to the Material Safety Data Sheet.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products. However, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.



ARDEX ENDURA (INDIA) PRIVATE LIMITED

an ISO 9001:2015 & ISO 14001:2015 certified company
Corporate Office & Regd. Office: Unit No. 406 & 407,
"Brigade Rubix" No. 20, HMT Campus,
Yeshwanthpur Hobli, Bengaluru - 560013.
CIN No: U24233KA1997PTC022383 Tel: +91 80 66746500
Email: customercare@ardexendura.com
Website: www.ardexendura.com

Branches

• AHMEDABAD	+919228019132	• HUBBALLI	0836 2970505	• MYSURU	0821 2570171
• BENGALURU	+919972922333	• HYDERABAD	+918296297519	• NAGPUR	+918296297638
• BHUBANESHWAR	0674 2578101	• INDORE	0731 4021148	• PUNE	+919881249292
• CALICUT	0495 2740334	• JAIPUR	0141 2392993	• RAIPUR	0771 4038300
• CHENNAI	044 42805544	• KOLKATA	+919831071084	• SALEM	0427 2211454
• DELHI	+918296160618	• LUCKNOW	0522 4043251	• TRIVANDRUM	0471 2598648
• ERNAKULAM	0484 2341044	• LUDHIANA	0161 2532170	• VIJAYAWADA	+918688354587
• GOA	0832 2750992	• MANGALURU	0824 2442176	• VISAKAPATNAM	0891 6469499
• GUWAHATI	+917896002188	• MUMBAI	022 65133299		