



# R 816 CE

## Epoxy coal tar coating

### DESCRIPTION

R 816 CE is a two component coating based on unmodified epoxy resin cured with a polyamine curing agent. It has excellent water & alkali resistance where it combines the chemical resistant properties of an epoxy resin with excellent water resistant properties of a coal tar.

### USES

To provide a heavy duty protective, waterproof, and flexible coating in:

- Sewerage & waste water industry
- Aggressive immersion conditions on cementitious & metal substrates.
- Lining of tanks, pipes and ducting, steel pipes
- Jetties, Offshore platforms or marine environments like sluice and barrage gates.
- Underground steel or concrete structures

### FEATURES

- Excellent resistance against acids and alkalies and varied chemicals
- Excellent abrasion resistance
- Good flexibility
- High build coating
- Easy application: brush, roller, spray
- Seamless finish

### PHYSICAL PROPERTIES

Type	Two pack, cold cured
Colour	Black
General composition	Amine cured epoxy, blended with coal tar
Mixing ratio (R:H)	2:1 by volume
Finish	Semi glossy
Pot life @ 27°C ASTM D 2471	60-90 Minutes
Drying time ASTM D 1640	
To touch	1-2 hrs
Walkable	5-6 hrs
Hard dry	24 hrs
Full cure	7 days
Overcoat interval	6 hrs

### Performance data

Flexibility test ASTM D 522	Passes
Cross cut adhesion test ASTM D 3359	Passes
Salt spray test 500 hrs ASTM B 117	Passes

### COVERAGE ESTIMATES

Pack Size	Coverage
60 Litres	5 m <sup>2</sup> /litre/coat @ 150 microns
Part A 20 litre x 2	
Part B 20 litre x 1	

### 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.

#### Mixing

Stir the contents of Part A (Resin) and Part B (Hardener) individually. Mix two parts of Resin with one part of Hardener by volume and stir to obtain a smooth homogeneous mix.

#### Application

Apply the mixed R 816 CE using a brush, roller or airless spray on the prepared surface in 2 coats with a recoat interval of minimum 6 hours. An additional coat is recommended for areas where very high chemical resistance is required. Ensure that the mixed material is consumed within 60-90 minutes. Allow the coating to cure for 7 days to air dry.

### 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.

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### 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.



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