

# QED EpoxyLock WDE™

## High performance water dispersed epoxy topcoat

### Product Description

QED EpoxyLock WDE is a high performance water dispersed epoxy top coat developed for use over steel that has received an epoxy anti-corrosion primer.

### Composition

QED EpoxyLock WDE is a water dispersed epoxy resin containing fillers, pigments, adhesion promoters and wetting agents.

### Advantages

- Zero VOC
- High durability
- Resistant to wide range of chemicals
- Waterproof
- Long pot life
- Available in range of colors
- Easy to clean and maintain
- Non toxic

### Uses

- As a topcoat on steel coated with a anti-corrosion primer

### Specification Compliance

SCAQMD Rule 1168

Green Seal GS-03

LEED NC v2.2 EQ 4.2

### Laboratory Test Data

Property	Typical Results
<b>Finish</b>	Gloss or matt
<b>Dry film thickness</b>	50 microns (1 coat)
<b>Volume solids</b>	70%
<b>Specific gravity</b>	1.33
<b>Pot life (10C/20C/30C)</b>	5h/3h/90 mins.
<b>Touch dry (10C/20C/30C)</b>	12h/6h/3h
<b>Max. recoat time (10C/20C/30C)</b>	60h/30h/15h
<b>Full cure (10C/20C/30C)</b>	9d/7d/5d

### Color

Grey, red, black and white.

Gloss or matt finish available.

Other colors available on request subject to minimum order.

### Theoretical Coverage

QED EpoxyLock WDE 14.4m<sup>2</sup> per liter per coat.

Actual coverage will depend on wastage and surface profile and can be up to 20% higher than theoretical coverage.

### Packaging

4.5 and 15 liter packs.

### Shelf Life

18 months when stored at below 30C under shade in a dry environment.

### Installation Guidelines

QED EpoxyLock WDE should be applied by experienced coating crews. QED Chemicals Limited provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

### Surface Preparation

Surfaces should be thoroughly cleaned and degreased to SSPC-SP1 prior to blasting. All sharp edges, protuberances, welds, etc should be ground down to remove any sharp edges. The degreased surface should now be grit blasted to a minimum Sa 2½ in accordance with BS7079 Part A1 or equivalent. This means very thorough blast cleaning using chilled steel grit to provide near white metal 85% clean. The surface shall be free from all foreign matter. A surface profile of 45 microns is the recommended finish. All dust and abrasive residue must be removed from the surface prior to application of the first primer coat.

Where grit blasting is not possible or desirable, surface preparation can be carried out by mechanical means to standard ST2 i.e. thorough scraping, wire brushing or grinding to remove all loose mill scale, rust, loose coating and foreign matter for small areas. The finished surface should have an irregular profile. The metal should display a "bright" finish.

For larger applications hydro-jetting (high pressure water jetting) is recommended as follows. Hydro-jetting with

raw water at a delivery pressure of between 450 to 500 bar at a flow rate of 16 gallons a minute. This is sufficient for the removal of all loose paints and mill scale back to a tight surface. Soluble salt readings should now be taken to give an indication of micro siemens of sodium chloride contaminat ion present. Subsequent hydro jetting with potable water at 620 to 700 bar at a flow rate of 18 gallons a minute to flush the surface contamination. Soluble salt readings should again be taken and give an indication of between 10 to 30 micro siemens. Any residual existing coating must be firmly adhered to the substrate and should be thoroughly abraded.

### Priming

Prime using QED AC Primer refer to separate datasheet

### Mixing

Add the hardener 'Part B' into the base 'Part A' and mix using a slow speed drill with an QED Coating Mixer Paddle for 3 minutes or until both components have fully dispersed and are uniform in color. Be sure to rotate the mixer throughout the drum. Before using the product, pour the mixed product into a clean container to make sure all the pigment has been dispersed and has not been left in the bottom of the mixing can. Mix only full packs.

### Application

Apply in coats of 70 microns wet film thickness using brush, roller or airless spray. Recoat if required within the recoat time. Clean equipment using water.

In areas subject to no abrasion a single coat will be sufficient

### Limitations

May change color when exposed to direct sunlight.  
Will not accommodate movement cracks.  
Do not apply below 5C.  
Avoid excessive application.  
Avoid skin contact.  
Do not discard into the water system.

### Health and Safety

**This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website [www.xqglobal.com](http://www.xqglobal.com).**

### Authorized Technical Specialist

Please note that only QED Authorized Technical Specialists ('ATs') are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit [www.xqglobal.com](http://www.xqglobal.com) for a full list of QED ATs.

### Datasheet Validity

QED Chemicals Limited makes modifications to its product datasheets on a continuous basis. Check the datasheet update section on [www.xqglobal.com](http://www.xqglobal.com) to ensure you have the latest version.

### Warranties

QED Chemicals Limited supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. QED Chemicals Limited does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to QED Chemicals Limited in writing within five working days of being detected. QED Chemicals Limited **makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied.** QED Chemicals Limited shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.

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