

# X-Shield EpoxyLock HS

## High solids low VOC anti-corrosion epoxy coating for steel

### Product Description

X-Shield EpoxyLock HS is a high build, high performance coating chemically engineered to provide excellent long term anti-corrosion protection to both new and existing steelwork. In addition to providing long term anti-corrosion protection the product provides a finishing coat in its own right; however where an aesthetic finish or high UV resistance is required it can be over coated with X-Shield PolyLock UV. X-Shield EpoxyLock HS provides very high adhesion to metal surfaces prepared by mechanical means or high pressure water jetting to ST2 making it an ideal maintenance coating.

### Advantages

- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Formaldehyde free
- Can be applied to grit blasted, mechanically prepared or high water jetted steel
- Can be used as a single coat maintenance coating
- Offers high abrasion resistance
- Offers good chemical resistance
- Reduced surface preparation for steel
- Primerless
- Suitable for use in immersed conditions

### Typical Uses

- Long term internal & external protection of steel
- Maintenance coating for all corrosion problems
- Protection from chemical splashes and air borne chemicals
- Protection of marine structures where salts exacerbate corrosion
- External protection of pipes including bi-metallic corrosion caused by welding.

### Specification Compliance

SCAQMD Rule 1113  
LEED NC2009 IEQ 4.2

### Laboratory Test Data

Property	Typical Results
Volume solids (ISO 3233)	88%
VOC (IHM)	106 g/L
Specific Gravity (IHM)	1.4

\* IHM—In house Method

### Application Properties

Wet film thickness	115 to 230 microns per coat
Dry film thickness	100 to 200 microns per coat
Application temperature	0 to 50C air 0 to 60C surface
Mixing ratio	1B to 1H by volume

### Pot Life and Cure Profiles

Temperature	5C	10C	20C	30C	40C
Pot life	3h	2h	1h	30min	15min
Touch dry	12h	6h	3h	90min	45min
Hard dry	24h	16h	5h	3h	1.5h
Full cure	21d	14d	7d	4d	3d
Minimum recoat time	24h	14h	6h	3h	1.5h
Maximum recoat time	48h	48h	24h	12h	6h

Note: At temperatures above 30C, application by plural component airless spray is recommended due to the low pot life.

### Chemical Resistance

X-Shield EpoxyLock HS has excellent resistance to the following chemicals:

25% Sodium Hydroxide  
15% Sodium hypochlorite  
20% hydrochloric acid  
20% sulfuric acid  
10% phosphoric acid  
10% nitric acid  
Kerosene  
Diesel

### Color

Light Grey RAL 7035  
Other RAL colors to order (usually 500 liters minimum order)

### Theoretical Coverage

4.5 to 8.7m<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

5 and 15 liter packs.

