

X-Shield ZP Primer

Two component zinc phosphate epoxy primer for structural steel

30800312

Product Description

X-Shield ZP Primer is a high performance zinc phosphate epoxy primer for use as an anti-corrosive primer beneath coatings for the protection of steel.

Composition

X-Shield ZP Primer is a two component solvent free epoxy resin containing zinc phosphate anti-corrosive pigment and wetting agents.

Advantages

- Compatible with a wide range of topcoats
- Abrasion resistant
- High zinc content
- Compatible with a wide range of top coats
- No need to use full packs

Typical uses

- Highway structures
- Marine structures
- Buildings
- Petrochemical facilities
- Storage tanks

Laboratory Test Data

Property	Typical Results
Specific gravity	1.50 ± 0.05
Bond to steel (ASTM D4541)	>5 MPa
Flexibility (BS 3900 E11)	Pass
Humidity resistance (ASTM D2247)	Unaffected 500h
Salt fog resistance (ASTM B117)	Unaffected 500h

Application Properties

Pot life	1 hour at 30C
Touch dry	5 to 12 hours at 30C
Recoat time	8 to 15 hours at 30C
Full cure	5 days at 30C

Volatile Organic Content

VOC = <40g/L

Color

Grey

Theoretical Coverage

10.5m² per liter per coat.

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

Packaging

19 liter packs.

Shelf Life

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

Installation Guidelines

X-Shield ZP Primer should be applied by experienced coating crews. X-Calibur 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

Steel

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 coat. Depending on the level of corrosion protection required, an anti-corrosion or holding primer may be necessary.

Mixing

Add the hardener 'Part B' into the base 'Part A' and mix using a slow speed drill (500 rpm) with an X-Shield 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.

After mixing, allow to stand for 15 to 20 minutes before use.

Application

Apply in single coats of 95 micron wet film thickness using brush, roller or airless spray. Multiple coats can be applied. When using airless spray, tip size should be 0.018" at a pressure of 2200psi. When using conventional spray equipment atomising pressure should be 40 psi. If necessary thin the product with 5 to 15% X-Shield Solvent S. Apply subsequent coats or topcoat within 8 to 15 hours at 30C. Clean equipment using X-Shield Solvent.

Limitations

Not to be used without a topcoat.
Do not use in confined spaces with adequate ventilation
Do not smoke in presence of this product
Do not thin by more than 15%
Do not apply below 5C or within 3C of the dew point.
Avoid excessive application.

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.x-calibur.us

Authorized Technical Specialist

Please note that only X-Calibur Authorized Technical Specialists ('ATSS') 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.x-calibur.us for a full list of X-Calibur ATSS.

Datasheet Validity

X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on www.x-calibur.us to ensure you have the latest version.

Warranties

X-Calibur 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. X-Calibur does not warrant or guarantee the installation of the products as it does not have control of the installation or end use of the products. Any suspected defects must be reported to X-Calibur in writing within five working days of being detected. X-Calibur Construction Systems Inc. **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.** X-Calibur Construction Systems Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.



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