

# X-Shield FlamSteel W120

## Water dispersed intumescent paint system

20840323

### Product Description

X-Shield FlamSteel W120 is a high performance intumescent paint. It can provide up to 120 minutes fire protection to structural steel. (Refer to loading tables.) Can also be used to increase fire protection on concrete and masonry 500 microns DFT total will provide 2 hours fire protection.

### Composition

X-Shield FlamSteel W120 is a non hazardous water dispersed acrylic resin based coating.

### Advantages

- Can be applied over a wide range of steel protection systems
- Water dispersed
- Primerless
- Very low VOC

### Laboratory Test Data

Property	Typical Results
Volume solids	73%
Specific gravity	1.38

### Application Properties

Coating thickness	Refer to the fire loading table for this product			
Application temperature	5 to 35C			
Practical loading rates	Up to 600 microns per coat wet			
Touch dry 500 microns	10C 6h	20C 4h	30C 2h	35C 1.5h
Recoat time 500 microns	10C 16h	20C 8h	30C 4h	35C 6h

### Volatile Organic Content

VOC = 19 g/L

### Approval

Warrington Fire

### Specification Compliance

BS 476, Part 21

### Color

Off white.

### Packaging

20 Kg.

### Shelf Life

12 months when stored below 35C under shade in a dry environment.

### Installation Guidelines

X-Shield fire protection systems can only be applied by an NCC X-Calibur Registered Contractor using trained personnel and the correct equipment. NCC X-Calibur does not allow any contractor on to the register unless they satisfy strict selection criteria. For each application NCC X-Calibur will provide a detailed method statement that the Registered Contractor will work to.

### Recommended Primers

X-Shield AC Primer (see separate datasheet).

Note: A wide range of other primers will be suitable please contact NCC X-Calibur for compatibility testing and approval.

### Recommended Top Coats

X-Shield Epoxy Lock 65 (see separate datasheet).

X-Tech EpoxyAqua 100 (see separate datasheet).

Note: A wide range of other top coats will be suitable please contact NCC X-Calibur for compatibility testing and approval.

### Limitations

Do not apply over chlorinated rubber primers and paint systems.

Do not apply over bitumen based primers and coatings. Protect coated surface from exposure to water when no top coat system is applied

Do not apply below 5C or within 3C of the dewpoint Avoid skin contact.

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## Health & 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.ncc.com.eg](http://www.ncc.com.eg).**

## Authorized Technical Specialist

Please note only NCC X-Calibur 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.ncc.com.eg](http://www.ncc.com.eg) for a full list of NCC X-Calibur ATSS.

## Datasheet Validity

NCC X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on [www.ncc.com.eg](http://www.ncc.com.eg) to ensure you have the latest version.

## Warranties

NCC X-Calibur supplies products that comply with the properties shown on the current datasheet. In the unlikely event that products supplied are proved not to comply with the properties, then we will replace the non-compliant product or refund the purchase price.

NCC 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 product. Any suspected defects must be reported to NCC X-Calibur in writing within five working days of being detected. NCC X-Calibur Construction Chemistry 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.** NCC X-Calibur Construction Chemistry Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.