



**WAHSU WORLD LLP**

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**TECHNICAL SPECIFICATIONS  
FORTIFIERSTEEL INTUMESCENT PAINT  
STRUCTURE STEEL**



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**WAHSU WORLD LLP**

LLP Identification Number: AAX-8928

Registered Address 1/6171 F/F, KH NO.1253/688/343, Street No 3, East Rohtash Nagar Shahdara, Delhi  
110032 Website:- [www.wahsu.in](http://www.wahsu.in), Email Id - [info@wahsu.in](mailto:info@wahsu.in), wahsu.wow@gmail.com

## Characteristic

## Specification

|                                                              |                                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT</b>                                               | <b>FortifierSteel Intumescent for Structural Steel</b>                                                                                                                                                                                                            |
| <b>HSN CODE</b>                                              | 32099020                                                                                                                                                                                                                                                          |
| <b>TYPE</b>                                                  | Thin Fire-retardant water base intumescent coating paint; Anti Halogen and asbestos free for metallic surfaces for interior use.                                                                                                                                  |
| <b>COLOUR</b>                                                | Off white/ special shades can be manufactured                                                                                                                                                                                                                     |
| <b>FINISH</b>                                                | Mat                                                                                                                                                                                                                                                               |
| <b>CURING</b>                                                | Surface Dry    30 min Tack<br>free drying    24 hrs<br>Hard dry        4 hrs<br>Over coating    4 hrs                                                                                                                                                             |
| <b>DRYING</b>                                                | Air-drying paint                                                                                                                                                                                                                                                  |
| <b>APPLICATION</b>                                           | Roller or air less spray. Airless spray equipment is recommended and should match these guidelines:<br>Tip size 19 – 25<br>Fan Angle 20° - 40°<br>Operating Pressure 2500 – 3000 psi<br>Hose diameter 10 mm (3/8") internal diameter<br>Hose length Max. 60 mtrs. |
| <b>NON-VOLATILE MATTER</b>                                   | Min 60 % by volume                                                                                                                                                                                                                                                |
| <b>SCRATCH RATING</b>                                        | No such scratch as to show the bare surface                                                                                                                                                                                                                       |
| <b>FLEXIBILITY AND ADHESION AFTER 48 HOURS OF AIR DRYING</b> | No visible damage or detachment of the film                                                                                                                                                                                                                       |
| <b>WATER/ACID/ALKALI/OIL</b>                                 | No Effect in mild applications                                                                                                                                                                                                                                    |



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**SHELF LIFE**

One year

**FIRE RATING ELEMENTS**

Four Hours for structural steel

**WATER IMMERSION**

No effect after immersion for 360 Hours

**COVERING**

7 Sq. ft. per liter for 2 mm DFT and 15 Sq. ft. per liter for 1 mm DFT

**USE**

Suitable on any type of surface. Simply prepare the surface and apply FortifierSteel F R PRIMER solvent base on metal and water base on cement walls. Then apply seven coats of FortifierSteel with four hours' interval between coats. It can be tinted by universal strainers. Then two coats of FortifierSteel F R TOPCOAT for humid areas and for long life. In case of fire, the surface should be repainted.

**HOW IT WORKS**

It forms foam when temperature reaches 200 degrees Celsius. This foam is heat and fire resistant and almost non-conductive. This keeps the surface away from heat and hence does not allow the surface to receive or conduct the heat in other areas. Also, since this forms foam and a charred layer, it does not allow oxygen to reach to the surface over which it is applied. Hence it protects the surface from catching fire.

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**FortifierSteel passes the Test Safe`s following tests -**

- A. Flammability testing of materials and substances, combustion.
- B. Product analysis with heat, toxicity and smoke yield.
- C. Explosive testing of materials, including flammable gasses, dusts, and vapors.
- D. It also passes bench scale flammability test.

FortifierSteel passes the NFPA 703 test for fire retardant Impregnated wood and fire-retardant coatings for building materials.

FortifierSteel passes following tests as per ASTM. -very much within the range of NFPA approval.

Flame spread test as per ASTM E-162: 01

Smoke generation test as per ASTM E-662: 06.

Surface burning test as per ASTM E-84.

Cabinet method fire retardancy test as per ASTM D-1360.

#### **COATING THICKNESS**

Number of coats will depend upon type of application. In any case, total dry film thickness of the coating should be 3.5- 4.00 mm for Four hours fire rating

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### **Application of topcoat**

Once DFT's have been achieved as specified, FortifierSteel TOPCOAT can be applied. Make sure that FortifierSteel is completely dry before applying topcoat.

### **Maintenance**

Damaged areas should be abraded back to a sound surface. The surface should then be clean and dry before re-applying.

### **Storage**

FortifierSteel should be stored internally between +5 °C and +30 °C. Do not store below +5 °C. At temperatures above 25 °C the shelf life will be reduced. Shelf life normally is 12 months in originally sealed containers.

### **Note**

The technical specification is correct to the best of our knowledge and under test conditions and we do not accept any liability towards misuse and contents of it. Product must be tested for specific use prior to use.

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