VIJAY
Systems Engineers

DOCUMENT NO. CAT/SSC-I/R4/24

VS STEEL COATING INTUMESCENT

FIRE RETARDANT COATING COMPOUND PROTECTS STEEL STRUCTURE

(VSSC120VI)

PRODUCT DESCRIPTION

VS Steel Coating Intumescent provides fire protection to structural steel. It imparts fire resistance and heat insulation by forming thick foam like char in fire conditions. It prevents sudden collapse of the steel structure due to fire.
The phenomenon of possible collapse of steel structures in fire conditions is based on the fact that steel loses nearly 50% of its mechanical strength at a temperature of 550 °C. When all the exposed surface of structural steel is coated using VS Steel Coating Intumescent, a fire rating of up to two hours is possible.

SPECIAL FEATURES:

- It has excellent adhesion to most structural steel surfaces and the conventional primer and paint systems in commercial and industrial units
- Very light weight and easy to apply just like a paint coat.
- does not change the original look (shape & size).
- It has a good surface finish like a rough matt face. No further painting of the coated surface is necessary.
- Is easy to apply either during prefabrication or after completion of structure
- Modifications to the structure are feasible with little maintenance efforts
- It can withstand conditions like: aging, vibrations, temperature variations
- The system does not evolve major toxic gases during exposure to fire conditions. Ecologically harmless.
- The system is not prone to attacks by vermin, termite or rodents



SPECIFICATIONS

PROPERTY	PRESENT VALUE
• Colour & Appearance	• Light Grey, thick paint like coating
• Wet Density	• 1.25 to 1.40 gms/cc3
• Flammability / Combustibility	• Non Flammable when cured dry
• pH	• 7 to 9
• System Reinforcement	• Intumescent brush able / sprayable coating
• Surface Preparation	• Sa 2 1/2 (bright, White/grey Base Metal)
• Adhesion Basen	• Two Component Zinc Rich Epoxy Primer 50 Microns DFT Minimum

TESTED IN ACCORDANCE WITH ASTM-E-119 & UL 263 for 2 HOURS FIRE RATING