

Steelguard FM® 550

Thin film intumescent coating

Product Data/ Application Instructions

- Thin film solvent based intumescent
- Tested to international fire test standards
- EPA compliant
- Shop or site application
- Up to 40 mils dft application in a single coat
- Rapid job completion
- Faster recoat times then conventional thin film intumescents
- Listed by Underwriter's Laboratories, Inc. as a fire system for protection of standard steel for up to 2 hours
- Listed by U.L. for general purpose interior or interior conditioned space application
- Top coated with Amercoat 450H for a durable, decorative finish
- Cost effective alternative to conventional fireproofing materials

Typical Uses

Intumescent fire protection for internal structural steel. Steelguard FM 550 is suitable for off site application by manual airless spray or automatic application with pre-heat and accelerated drying facilities.

Physical Data

Finish	Flat	
Color	White, gray	
Components	1	
Curing mechanism	Solvent release	
Volume solids (ASTM D2697 modified)	68 ± 3%	
Total dry film thickness	refer to specific design criteria based on the w/d ratio of the steel members	
Dry film thickness per coat	Up to 40 mils dft	
Coats	1-4 depending on target fire rating	
Thinner/Cleaner	Amercoat 65	
Theoretical coverage	ft ² /gal	m ² /L
1 mil dft	1090	27.2
10 mils dft	109	2.72
40 mils dft	27	0.7
VOC	3.08 lb/gal	376g/L
Flash point (SETA)	°F	°C
Steelguard FM 550	77	25

Qualifications

Please refer to the following U.L./ANSI 263 designs:
(www.ul.com)

- N620 restrained and unrestrained beams
- X665 w-shape columns
- X666 tubular columns
- X667 steel pipe columns

Steelguard FM 550 has also been tested to British Standard 476 Part 21. Appraised by the UK ASFP technical committee and approved for entry in the Yellow Book. Steelguard FM550 has also been tested and approved to several national fire test standards. Please contact your PPG representative for details.

ASTM E84 Results

Flame Spread	15
Smoke Developed	40-45
NFPA	Class A

Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of each component. Safety precautions must be strictly followed during storage, handling and use.

CAUTION – Improper use and handling of this product can be hazardous to health and cause fire or explosion.

Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: implementation of proper ventilation, use of proper lamps, wearing of proper protective clothing and masks, tenting and proper separation of application areas. Consult your supervisor. Proper ventilation and protective measures must be provided during application and drying to keep spray mists and vapor concentrations within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces, such as tank interiors and buildings.

This product is to be used by those knowledgeable about proper application methods. PPG makes no recommendation about the types of safety measures that may need to be adopted because these depend on application environment and space, of which PPG is unaware and over which it has no control.

If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product.

Note: Consult Code of Federal Regulations Title 29, Labor, parts 1910 and 1915 concerning occupational safety and health standards and regulations, as well as any other applicable federal, state and local regulations on safe practices in coating operations.

This product is for industrial use only. Not for residential use.

Shipping Data

Packaging	5-gal units	
Shipping weight (approx.)	lb	kg
5-gal unit		
58		26
Shelf life when stored indoors at 40 to 100°F (4 to 38°C)		
1 year from shipment date		
Numerical values are subject to normal manufacturing tolerances, color and testing variances. Allow for application losses and surface irregularities. See application instructions for complete information and safety precautions.		
The mixed product is photochemically reactive as defined by the South Coast Air Quality Management District's Rule 102 or equivalent regulations.		



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Marine Coatings**
www.ppgpmc.com/northamerica

One PPG Place, Pittsburgh, PA 15272 • Tel: 888-9PPGPMC