



SHERWIN-WILLIAMS
Protective & Marine Coatings



FIRETEX[®] FX-5090

INTUMESCENT Vs. VERMICULLITE





SHERWIN-WILLIAMS®
Protective & Marine Coatings

FIRETEX®

WORLD CLASS FIRE PROTECTION SOLUTIONS

Sherwin-Williams's technology is performance without compromise. With over 150 years experience in the coatings industry, we understand how critical it is that your investment gives you a quality, long-term fire protection system that performs in demanding environments.

FIRETEX® FX-5090 technology can provide a visually pleasing finish that allows for a creative usage of structural steel surfaces in building design, whilst offering essential long term service and critical fire protection to steelwork for up to 120 minutes. Optimized for application in shop or at the job site, ensuring that whatever the construction schedule, you can be assured that you are selecting a passive fire protection system that has been researched, developed and fire tested to the highest International Standards approvals.





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FIRETEX®

FIRETEX® FX-5090 PROVIDE THE SOLUTION

Architects, engineers and asset owners had recognised that cementitious vermiculite fireproofing proves to be of high maintenance, short life cycle, provides little to no corrosion protection, and conceals corrosion under fireproofing (CUF). Cementitious vermiculite fireproofing requires continued maintenance every 3 to 5 years. The porosity of concrete and cracks provide avenues for moisture and contaminants to penetrate leading to degradation of the asset and a compromised fireproofing system.

Sherwin-Williams' world class FIRETEX® FX-5090 water based intumescent coatings provided the solution with high quality corrosion-resistant resins – one that prevents corrosion. It offer a high performance system with a desirable aesthetic finish that will last the design life of the asset without any maintenance. With minimal field work required because 90-95% of the fireproofing is applied in the shop, total installed costs are equivalent to cementitious vermiculite. It provide asset owners with peace of mind, knowing they have fireproofing fully performance-tested to fire case scenarios in a wide surface temperature range, for long life protection without any maintenance.





FIRETEX® FX-5090 BENEFITS AT A GLANCE

FIRETEX® FX-5090 Intumescent Coating	VS	Cementitious Vermiculite Fireproofing
Provides a polymeric barrier and rust inhibitive protection from CUF		Without rust inhibitive protection from CUF, only have a thin primer coating as corrosion barrier
Resists absorption of moisture and moderate chemical attack; in 15-year salt water coating retains these properties		Surface defects and absence of finish coats allow moisture and contaminants to penetrate the cement and promote corrosion
Durable against mechanical damage, typical freeze/thaw cycles, expansion-contraction, vibration immersion tests and/or flexing		Cracking and spalling as a result of corrosion, mechanical damage, freeze-thaw, expansion-contraction, vibration and/or flexing
No maintenance, perform extremely well against fire and corrosion without a finish coat (only required for UV resistance)		High maintenance with continual inspection and maintenance, required including caulking, repairing cracks and finish coats
Easily inspected to ensure the asset is protected from both fire and corrosion		Core samples must be taken to determine the corrosion level in any specific location
Excellent bond strength and resistance without any CUF present		Cracks or disbond easily and adhesion problems caused by CUF present
Lower applied weight per square foot, reducing transportation costs for prefabricated structures		One load of bare steel I-beams delivered to contractor yard to be fireproofed equal to 5 to 7 truckloads to job site
Ease with both shop and field application		Site congestion to build up thickness
Expands and contracts with the steel structure, so is more durable in transport from steel fabricator to job site		Does not expand and contract with the steel structure, which makes much repair work at the job site more likely
Smaller block-out areas and more fireproofing can be applied in the shop, with faster return to service		Much more block-outs areas and more field work, increasing the overall installed cost for shop-applied projects significantly





SHERWIN-WILLIAMS®
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FAST - TOUGH - SUSTAINABLE
EXCELLENT PROTECTION DURABILITY
INTERNATIONALLY TESTED AND APPROVED





SHERWIN-WILLIAMS®
Protective & Marine Coatings



OTHER AREAS OF EXPERTISE IN FIRE PROTECTION

FOR WOOD

FOR CONCRETE



THE SHERWIN-WILLIAMS DIFFERENCE

Sherwin-Williams Protective & Marine delivers world-class industry subject matter expertise, unparalleled technical and specification service, and unmatched regional commercial team support to our customers around the globe. Our broad portfolio of high-performance coatings and systems - including protective liquid and powder, fire protection and resinous flooring - excel at combating corrosion and help customers achieve smarter, time-tested asset protection. We serve a wide array of markets across our rapidly growing international distribution footprint, including Bridge & Highway, Energy, High Value Infrastructure, Manufacturing & Processing, Marine, Rail, Power and Water & Wastewater.

SHERWIN-WILLIAMS®

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