

# FIRETEX® M90 SERIES

FOR CRYOGENIC SPILL AND  
HYDROCARBON FIRE PROTECTION

**SHERWIN  
WILLIAMS®**



## WORLD CLASS EPOXY FIRE PROTECTION SOLUTIONS

Sherwin-Williams FIRETEX® M90 series of materials have been designed to provide fire and corrosion protection against the most aggressive hydrocarbon industry hazards.

Developed to resist hydrocarbon pool fires, jet fires, cryogenic spill, and explosions, this range of products is ideally suited for use in onshore and offshore applications in the energy sector.

Based on a proven chemistry platform, the FIRETEX® M90 series has protected assets and lives for nearly 30 years. With a wide range of fire, corrosion, cryogenic spill, and blast/explosion approvals, this range of highly durable materials are ideally suited for use on new build assets, as well as on maintenance projects on operating facilities and resources.

**FROM SPEC TO PROTECT**

[protectiveemea.sherwin-williams.com](http://protectiveemea.sherwin-williams.com)



## PROTECTING LIVES AND YOUR BOTTOM LINE

### Recommended uses

- Oil refineries, LNG terminals, petrochemical plants, marine docks, offshore facilities and assets
- Support structures: skirts, legs, saddles, columns, beams and bracing
- Pipe racks, vessels, tanks, spheres and spheroids

### Application time savings

- Reduces time spent coating assets to accelerate applications
- Quick over-coating times
- Excellent sag resistance and a high-film build with minimal finishing requirements

### Cost effective

- Reduces the total cost of the coating process with as few as two coats
- Low installation weight minimises transportation cost after application
- Can be applied in shops, modular yards or on site
- Minimal maintenance over design life of the asset

### Extended life of assets

- Protects assets from both fire and corrosion through the proven performance of our epoxy formulation
- Lowest life-cycle cost option
- High-performance corrosion and fire protection in heavy industrial environments



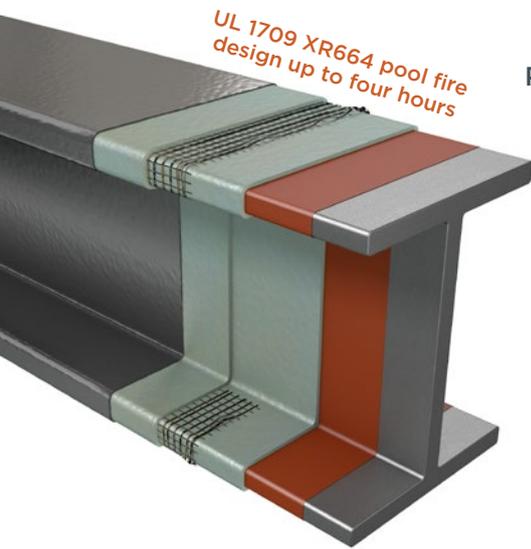
Product support



FEET and FDE software



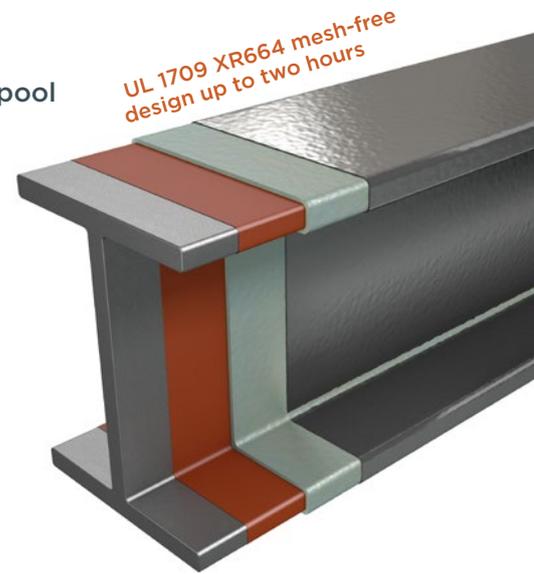
Portfolio Engineering support  
Tech service



## FIRETEX® M90/03

### Passive fire protection for hydrocarbon pool

- Topcoat: full range available from Sherwin-Williams
- Scrim cloth (per certification): **FIRETEX H240 mesh** (limited use requirement for up to 4 hours)
- Intumescent: **FIRETEX M90/03**
- Primer: full range available from Sherwin-Williams
- Carbon steel: **Blast clean to Sa2½ ISO 8501-1**



FIRETEX M90/03 is a highly reinforced, borate free, 100% solids, anticorrosive epoxy fireproofing designed to thermally insulate both carbon steel and galvanized steel during a hydrocarbon pool fire, according to UL 1709, revision 5, up to 4 hours. FIRETEX M90/03 offers mesh free designs for up to 2 hour fire ratings.

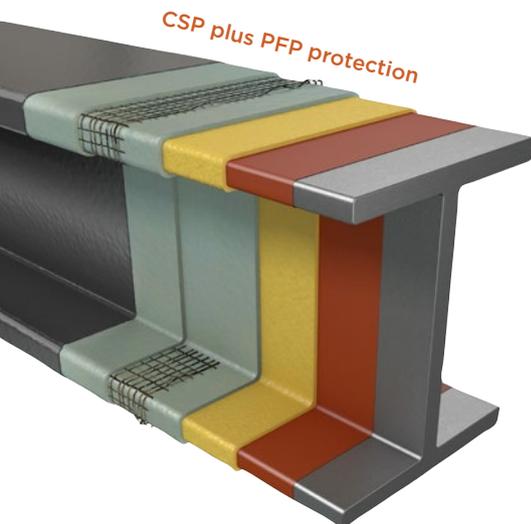
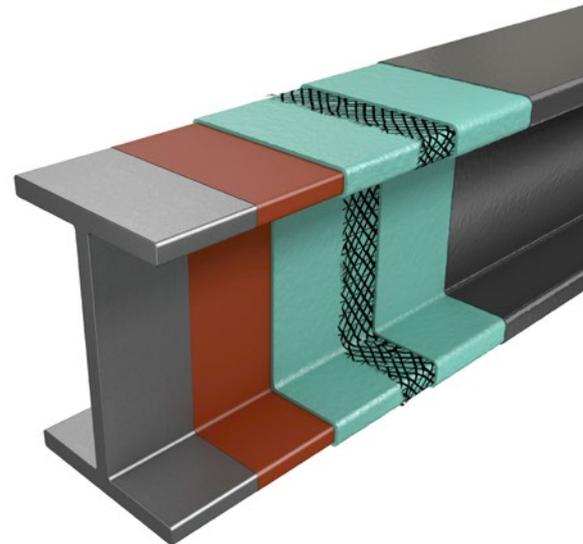
Consult Sherwin-Williams for alternative primers and topcoats

## FIRETEX® M90/02

### Passive fire protection for hydrocarbon pool and jet fire

FIRETEX M90/02 provides up to four hours fire protection, while giving a corrosion resistant protective coating for the design life of the asset. With low spray applied density and reduced film build requirements it is highly recommended for both onshore and offshore structures.

- Topcoat: full range available from Sherwin-Williams
- Scrim cloth: **FIRETEX J220 mesh** (gives ½ to 4 hours protection)
- Intumescent: **FIRETEX M90/02**
- Primer: full range available from Sherwin-Williams
- Carbon steel: **Blast clean to Sa2½ ISO 8501-1**

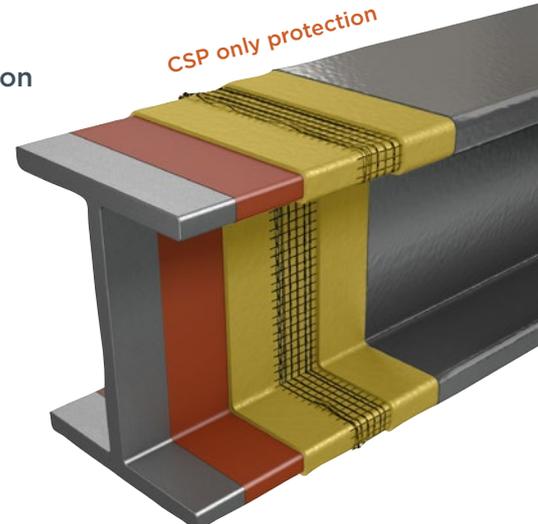


## FIRETEX® M89/02

### Insulation and cryogenic spill protection

- Insulation: **FIRETEX M89/02**

FIRETEX M89/02 is an epoxy based insulation coating designed to protect against cryogenic spills and elevated temperature exposures. Fully compatible with FIRETEX M90 series, it is durable and corrosion resistant, and offers up to 2 hours of cryogenic spill protection, with a low applied density and installed weight.



## FROM START TO FINISH

Sherwin-Williams Fire Engineering and Estimation Team (FEET) offers expert advice on optimised fire and insulation coatings solutions for the different elements of the facility. The team comprises of highly qualified engineers who are dedicated only to fire.

The service offered by the team coupled with our third party verified design software solutions is unique within the industry and is available around the clock from our global offices.

- Technical advice
- Training
- Early concept advice
- Bespoke fire protection calculating industry leading software
- Standard FIRETEX design
- Fire engineering design



Fire engineering and estimation/  
FIRETEX thickness enquiries:

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Email: [feet.support@sherwin.com](mailto:feet.support@sherwin.com)

## TESTED AND CERTIFIED

	FIRETEX® M90/03	FIRETEX® M90/02
100% solids epoxy intumescent	✓	✓
Durability: pre-qualified to System 5a under Norsok M-501		✓
Durability: pre-qualified to ISO 12944 CX	✓	
Durability: tested and approved/listed under UL2431	✓	✓
Fire testing: Pool fire (BS476-20&21, ISO834-3) Jet fire (ISO22899-1)	n/a	Up to 3½ hours
Fire protection: Listed under UL1709	Up to 4 hours (mesh free for up to 2 hours)	Up to 4 hours
Fire protection: Type approval under Lloyd's Register Type approval under DNV GL Type approval under American Bureau of Shipping	n/a	Up to 3½ hours
Blast resistance	Tested at 4 bar	
Hose stream testing to NFPA 290	✓	
Cryogenic spill protection including under ISO20088-1	Up to 2 hours with M89/02	
Cryogenic spill protection including under ISO20088-3	Up to 30 minutes	



NORSOK M501  
System 5A

## 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 that excel at combating corrosion helps customers achieve smarter, time-tested asset protection. We serve a wide array of industries across our rapidly growing international distribution footprint, including oil and gas, water and wastewater, bridge and highway, steel fabrication, flooring, food and beverage, rail and power, and marine.

# SHERWIN-WILLIAMS®

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