SHERWIN WILLIAMS. Revised 12/2021	Protective & & Marine Coatings	PRODUCT IN	Part A Part B	FIRETEX® POXY INTUN B59W005500-19 B59LV0550-19 B59J00220-99		
PRODUCT DESCRIPTION			Recommended Uses			
A two pack, solvent free, thick film epoxy intumescent coating that provides passive hydrocarbon fire protection for up to 4 hours on structural steel, decks and bulkheads. FIRETEX M90/02 is an exterior durable coating that is tested and approved for both pool and jet fire situations. It has resistance to the following: • Moisture • Alkali spillage • Aliphatic solvents • Weather			<ul> <li>M90/02 has type approvals and listings from numerous Classification Societies and Authorities, and is recommended for use on both onshore and offshore structures. It has been extensively tested and approved for durability under NORSOK M501 and UL1709. Typical examples of use are:</li> <li>Decks and bulkheads</li> <li>Structural steel support members</li> <li>Pipe racks</li> </ul>			
Pro	duct Characteris	TICS	<ul> <li>Vessel skirts and saddles</li> <li>Tanks</li> </ul>			
Colour:	our: Pale Blue			Vessels		
Volume Solids:	100%, mixed		Steel strue	ctures exposed to potential	DIASI	
VOC:	0.0 g/L; 0.0 lb/gal 42g/L (0.35/b/gal) with Thinner No 9	when thinned 5%	FIRETEX M90/02 is also recommended for use in LNG and cryogenic applications when applied as a duplex system using FIRETEX M89/02.			
Mix Ratio:	2:1 by volume			Endorsemen	TS	
2.40:1 by weight         Applied Density:       1.00 g/cm³ (8.35 lb/gal) Independently tested (see Additional Notes)         Typical Thickness:         Material can be specified from 200 mils (5mm) to 1120 mils (28mm). Please refer to FIRETEX M90/02 thickness tables for specific details.         Recommended Spreading Rate per coat: Plural Component Spray         Wet mils (mm)       120 (3) 275 (7)         Dry mils (mm)       120 (3) 275 (7)         ~Coverage sq ft/gal (m²/L)       14.7 (0.3) 5.7 (0.14)			BS476 Part 20 and 21 Appendix D – Hydrocarbon Pool Fire Testing ISO 22899-1 Jet Fire Resistance Type Approved by Lloyds Register of Shipping Type Approved by Det Norsk Veritas Type Approved by American Bureau of Shipping Approved by Underwriters Laboratory to UL1709 (design number XR632) BAM vessel test reference 3.2/8945 Resistant to blast overpressure NORSOK M501 Revision 6 System 5A NFPA 58 Annex H Hose Stream Test IMO Resolution MSC61 (67) Annex 1, Part 2 – Toxicity Test Tested and assessed to EN13381-8 European Technical Assessment ETA 20/1225.			
Maximum sag tole	ended dft per coat 40 mils (1n rance with overlap typically 27	75.0 mils (7mm)		PHYSICAL PROPER		
dry by plural comp Spread rate quote	onent spray. d refers to unthinned applicati	on				
Δν	erage Drying Tim	ES		Its below have been determine		
	<b>50°F/10°C @ 73°F/23°C</b> 8 hours 3 hours 18 hours 9 hours 8 hours 3 hours	@ 104°F/40°C 90 mins 4 hours 90 mins	Test Name Abrasion Res Tensile Stren Coefficient Th Hardness	gth ISO 527 nermal Expansion ASTM E83	060 Wear Index 182 15.5 MPa 31 81 μm/m°C 240 73 Shore D	
max	7 days 7 days	7 days	Plural Comp	oonent Spray		
Drying time is temperature, humidity, and film thickness dependent. Drying times quoted refer to unthinned application Pot Life: 60 minutes* *Trowel Application: At 73°F (23°C), pot life is 60 minutes and at 95°F (35°C), pot life is 30 minutes. For working time under Plural Application, see FIRETEX M90/02 Application manual. Sweat-in-time: None			A comprehensive application manual is available and will be provided to contractors. All application equipment needs to be approved by Sherwin-Williams. The application of Epoxy Intumescent materials requires equipment with specific performance characteristics. Please refer to the manual for a list of equipment that has been tested for these types of applications.			
Shout-m-time.	_		Airless Spra	iy		
Shelf Life: Flash Point: Clean Up: Reducer:		ww.sherwin-williams.o	leg airless sp <b>Trowel and</b> The material manufacture com/protectiveE	to M90/02 application manua oray application. <b>Preformed Castings</b> may be applied by trowel. It of preformed castings.	is also suitable for the	

Frotective         SHERWIN         WILLIAMS.    Protective & Coatings Revised 12/2021 Issue 17		EI Part A Part B	IRETEX® POXY INTUN B59W005500-19 B59LV0550-19 B59J00220-99 ON	
Recommended S	SAFETY PRECAUTIONS			
The following typical systems are recomm	Refer to the MSDS sheet before use.			
suitably prepared carbon steel: DFT (mils) Macropoxy 646 2-5 FIRETEX M90/02 As per requirement of p Hi-Solids Polyurethane 3	DFT (microns) 50-125 project 75	out notice. Cont	ical data and instructions are act your Sherwin-Williams re cal data and instructions.	epresentative for
or	SURFACE PREPARATION			
Macropoxy L4253FIRETEX M90/02As per requirement of pAcrolon C137V22.5	75 project 60	Surface must be grease, dirt, loos adhesion.	clean, dry, and in sound conc se rust, and other foreign ma	dition. Remove all oil, dust, aterial to ensure adequate
Note: FIRETEX J220 reinforcement cloth M90/02 in accordance with M90/02 applica Further primers and topcoats have been app	FIRETEX M90/02 is designed for use over a suitably prepared and primed substrate.			
Please refer to Sherwin-Williams Primer and details of approved materials.	It is possible to apply FIRETEX M90/02 to bare steel. Refer to FIRETEX M90/02 application manual for detailed surface preparation information.			
Overcoating should take place within seven	Minimum recom	mended surface preparation	:	
application of the previous coat of FIRETE exceeded, mechanical abrading of the FIR to ensure proper adhesion.	Steel SSPC-SP10 (Sa 2.5), 2-3 mils (50-75 microns) profile Galvanising SSPC-SP16, 1-2 mils (25-50 microns) profile			
While FIRETEX M90/02 can be applied a lower as a single coat, practical experience thickness of 200 mils (5mm) is the minimum	Application Conditions			
thickness of 200 mils (5mm) is the minimum thickness. Drying times, curing times and pot life s	Temperature:	maximum (air)	ninimum, 55°C (131°F)	
guide only.		Minimum 3° 75°C maximum	C above dew point, (substrate)	
The curing reaction of epoxies begins imm components are mixed, and since the reac temperature, the curing time and pot life w by a 10°C (20°F) increase in temperature ar	Relative Humidity	r: 85% maximum X M90/02 application manual	for detailed	
decrease in temperature.	information.			
Galvanized surfaces must be prepared acc minimum surface profile of 1.0 mils followed 646 series at 2-5mils (50-125 microns) DFT.	In order to achieve optimum water and chemical resistance, temperature needs to be maintained above 10°C (50°F) during curing.			
Alternative primers are approved: Please co representative for details.	ORDERING INFORMATION			
imerical values quoted for physical data may vary slightly from batch batch.		Packaging:	separate contair to use	nt material supplied in ners to be mixed prior
FIRETEX M90/02 must not be subjected to temperatures above 80°C (176°F). For use in temperatures below -20°C (-4°F) consult Sherwin-Williams Technical Advice Document TAD0040.		Pack Size:	60kg (132.2 lbs) units when mixe	and 20kg (44.09 lbs) d.
Where substrate operating temperatures fall in the 80°C (176°F) to			WARRANTY	
150°C (302°F) range a layer of FIRETEX I is required to preserve the long term fire per	to the suitability of and Sherwin-Willia	pany using the product without fir the product for the intended purp ms can accept no liability for the	ose does so at their own risk,	
There may be slight variations in color from variations in color, when using plural compo- fault with the spray equipment and this sh the correct ratio of base and additive are b	or for any loss or damage arising out of such use. The information detailed in this Data Sheet is liable to modification from time to time in the light of experience and of normal product development, and before using, customers are advised to check with Sherwin-Williams, quoting the refer- ence number, to ensure that they possess the latest issue.			
Applied Density is dependant on many var temperature, test method and application always fall within a range.				
CLEAN UP INSTRU	ICTIONS			
Clean spills and spatters immediately with Th immediately after use with Thinner No. 9. For manufacturer's safety recommendations whe	llow			

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This Data Sheet is specifically subject to the disclaimer which can be found at http://protectiveemea.sherwin-williams.com/Home/Disclaimer"