# FIREPRO<sup>®</sup> 9310

### Solventless Ultra High Build Epoxy Intumescent Coating PC 931

FEATURES		
FEATURES	•	PROVIDES EXTERIOR DURABLE PROTECTION

- RESISTANT TO HANDLING DAMAGE
- FAST DRYING
- LOW VOC's, LOW ODOUR
- **USES** FirePro<sup>®</sup> 9310 can provide up to 120 minutes of cellulosic fire protection for internal and external steel up to a C5 environment. No primer is required for a C3 environment.

SPECIFICATIONS Consult a Dulux Intumescent Specialist for specifications based on data for AS4100:1998 (R2016), BS476: Part 21 1987 and EN13381-8:2013.

#### **RESISTANCE GUIDE**

RESISTANCE G	UIDE		
WEATHERABILITY	Will chalk in exterior exposure if not top coated. Neither yellowing nor chalking detracts from the fire protection properties of the coating. Use a weatherable topcoat if required for appearance and UV resistance.	SOLVENTS	Very good solvent resistance.
HEAT RESISTANCE	Up to 120°C Dry Heat.	WATER	Excellent resistance to fresh and salt water.
SALTS	Excellent resistance to neutral and alkali salts.	ALKALIS	Suitable for splash and spillage of strong alkali.
ACIDS	Good resistance to splash and spillage of mild acids.	ABRASION	Good when fully cured.

#### TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Two Pack Ep	юху	APPLICATION COND	ITIONS*		
FINISH	Low Sheen			Min †	Max	
COLOUR	Light Grey		Air Temp.	10°C	40°C	
			Substrate Temp.	10°C	40°C	
			Relative Humidity		80%	
COMPONENTS	Two					
VOLUME SOLIDS	100%     COATING THICKNESS (MICRONS)					
VOC LEVEL	<2 g/L			Min	Max	Recommended
FLASH POINT	Not Applicab	le	Wet film per coat (µm)	600	4000	See FRL/FRR
POT LIFE	30 min (18.6kg kit, 20°C) 15 min (18.6kg kit, 35°C)		Dry film per coat (µm)	600	4000	See FRL/FRR
MIXING RATIO	Part A : 100	Part B: 7.5 (BY WEIGHT)				
THINNER			SUITABLE	· · · · · · · · · · · · · · · · · · ·		
CLEAN UP	920-81942 965-63020	Duthin <sup>®</sup> 450 or, CR Reducer	SUBSTRATES	primed ste	el.	
PRODUCT CODE	790-H0362 976-H0355	Grey (Part A) Hardener (Part B)	PRIMERS	Specified I primers.	Dulux <sup>®</sup> Prot	ective Coatings
			TOPCOATS	Specified I topcoats.	Dulux <sup>®</sup> Prot	ective Coatings
			APPLICATION METHODS	See Airless Recomme		nt

\* Refer to FirePro<sup>®</sup> Application Guide.

† While the minimum application temperatures are 10°C, productivity is significantly improved at 16°C or higher.

#### DRYING CHARACTERISTICS AT 1000 µm DRY FILM THICKNESS\*

					OVER	COAT
Temperature	Humidity	Touch	Handle	Full Cure	Min	Max <sup>1</sup>
20° C	50%	8 Hours	24 Hours	7 Days	6 Hours	7 Days

\*These figures are a guide only.

<sup>1</sup> Max overcoating must be reduced to 2 days for exterior exposure.

If the max recoat window has been exceeded, all affected surfaces must be thoroughly and uniformly abraded prior to the application of another coating. If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT. The DFT of FirePro<sup>®</sup> 9310 is dependent on FRL/FRR.

SPREADING RATE ASSUMING NO LOSSES **0.77 square metres per kilogram equals 1000 µm dry film thickness** NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions and surface roughness.

## FIREPRO<sup>®</sup> 9310

	<b>Steel:</b> Round off all rough welds, sharp edges and remove weld splatter. Remove oil grease and other contaminants in accordance with AS1627.1. Dulux recommends that surfaces be degreased with Gamlen CA1 (a free rinsing, alkaline detergent) according to the manufacturer's written instructions and safety warnings. Abrasive							
	blast-clean to a minimum of AS1627.4 Class 2.5 with a blast profile of 40-70 microns.							
APPLICATION								
BRUSH/ROLLER	Brushes - use high quality synthetic or nylon bristle brushes. Roller covers - use high quality 10mm or 12 mm synthetic woven nap roller covers.							
APPLICATION EQUIPMENT								
	Tip Orifice	Atomizing Pre	ssure	Mat'l Ho		Filters		
	0.021" – 0.023"	3,600 - 4,000	· .	3/8" o		No Filters in Pump		
	(533 - 584 microns)	(248 – 290 k	·	(9.5 mm or	,	Manifold or Spray Gun		
	<b>NOTE:</b> A 2 metre x 3/8"" (9.53 m The use of nonrestrictive swivel c				ial hose for gr	eater ease of application.		
	<ul> <li>Add the following to a Graco K60FH2 Airless Pump:</li> <li>Graco SS hopper, part #24X570 – Gravity feed product to lower</li> <li>Graco 4500w/240v inline heater &amp; mounting Kit, part No's 245863 &amp; 17V573 – Used to reduce viscosity. The material temperature at the spray tip should be 35°C.</li> <li>Graco XHF Direct feed spray gun &amp; XHD RAC Switch Tip and Guard</li> </ul>							
PUMP MAINTENANCE	After every 5- 6 kits the equipment should be flushed with solvent. This is accomplished in two stages. First, Duthin <sup>®</sup> 450 (920-81942) or CR Reducer (965-63020) (either new or filtered) is run through the pump for five minutes. Then a second flush is done, again for five minutes using fresh Duthin <sup>®</sup> 450 or CR Reducer (This solvent can be used for the first flush cycle of the next flush cycle). After the end of a work shift, the pump is flushed as stated. This time, after the second flush, the lower end of the pump is disassembled and thoroughly cleaned to remove all traces of coating material. It should be noted that the amount of flushing needed is dependent on temperatures and extended spray times.							
PRECAUTIONS	This is an industrial product designed for use by experienced Protective Coating applicators. Where conditions may require variation from the recommendations on this Product Data Sheet contact your nearest Dulux <sup>®</sup> Consultant for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the written consent of Dulux <sup>®</sup> Australia. The rate of cure is dependent upon temperature. Do not apply at temperatures below 10°C. Do not apply at relative humidity above 80% or when the surface is less than 3°C above the dewpoint. The surface to be coated must be totally free of moisture and contaminants. Ensure that in all circumstances FirePro <sup>®</sup> 9310 is applied over suitable primers. Do not use this product without consulting a Dulux <sup>®</sup> Protective Coatings Consultant.							
CLEAN UP	Clean all equipment with Duthin <sup>®</sup> 450 (920-81942) immediately after use. As an alternative CR reducer may be used. Refer to the FirePro <sup>®</sup> Application Guide for more details.							
APPLICATORS	FirePro <sup>®</sup> 9310 must be installed by a Dulux Registered Intumescent Applicator.							
SAFETY PRECAUTIONS	Read Data Sheet, SAFETY DA are available from Customer	ATA SHEET and ar Service (13 23 77)	y precautions or www.duluxp	on contair protective	ner labels. S. coatings.com	AFETY DATA SHEETS n.au		
STORAGE	Store in a well-ventilated area under cover. Keep containers closed at all times. Shelf life - 24 months							
HANDLING								
USING								
FLAMMABILITY								
WELDING			, ,					
COMPANY INFORM	ATION		PACKAGING,	TRANSPO	ORT AND ST	ORAGE		
Dulux Protective Coatings					Available in 18			
DuluxGroup (Australia) Pty Ltd         DuluxGroup (New Zealand) Pty Ltd           1956 Dandenong Road, Clayton 3168         150 Hutt Park Road, Lower Hutt, NZ		Lower Hutt, NZ		ON WEIGHT	Part A: Non D	verage of components) angerous Goods		
A.B.N. 67 000 049 427	A.B.N. 55 133 404 1		DANGERO		Part B: Class	3 UN 2735		
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