Dulux PROTECTIVE COATINGS

FIRETEX Platinum-120 (Formerly FirePro® 9310)

Solventless Ultra High Build Epoxy Intumescent Coating PC 310

FEATURES
- PROVIDES EXTERIOR DURABLE PROTECTION
- RESISTANT TO HANDLING DAMAGE
- FAST DRYING
- LOW VOC's, LOW ODOUR

USES Dulux® FIRETEX® Platinum-120 is a solventless, ultra-high build, epoxy intumescent coating for the fire protection of interior and exterior structural steel. Dulux® FIRETEX® Platinum-120 is rated to provide up to 120 minutes of cellulosic fire protection. Dulux® FIRETEX® Platinum-120 can be used as a part of an approved system in atmospheric corrosivity environments up to C5 as per AS/NZS 2312.1:2014. Dulux® FIRETEX® Platinum-120 is suitable for use directly to abrasive blast cleaned steel and when done so is suitable to be used in atmospheric corrosivity environments up to C3 as per AS/NZS 2312.1:2014.

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

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 Epoxy
FINISH	Low Sheen
COLOUR	Light Grey
COMPONENTS	Two
VOLUME SOLIDS	100%
VOC LEVEL	<2 g/L
FLASH POINT	Not Applicable
POT LIFE	30 min (18.6kg kit, 20°C) 15 min (18.6kg kit, 35°C)
MIXING RATIO	Part A : 100 Part B : 7.5 (BY WEIGHT)
THINNER	DO NOT THIN
CLEAN UP	920-81942 Duthin® 450 or, 965-63020 CR Reducer
PRODUCT CODE	790-H0362 Grey (Part A) 976-H0355 Hardener (Part B)

APPLICATION CONDITIONS*

	Min †	Max
Air Temp.	10°C	40°C
Substrate Temp.	10°C	40°C
Relative Humidity		80%

COATING THICKNESS (MICRONS)

	Min	Max	Recommended
Wet film per coat (µm)	600	4000	See FRL/FRR
Dry film per coat (µm)	600	4000	See FRL/FRR

SUITABLE SUBSTRATES	Abrasive blast clean steel, or suitably primed steel.
PRIMERS	Specified Dulux® Protective Coatings primers.
TOPCOATS	Specified Dulux® Protective Coatings topcoats.
APPLICATION METHODS	See Airless Equipment Recommendations

* Refer to Dulux® Epoxy Intumescent 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*

					OVERCOAT	
Temperature	**Humidity**	**Touch**	**Handle**	**Full Cure**	**Min**	**Max[1]**
20° C	50%	8 Hours	24 Hours	7 Days	6 Hours	7 Days

*These figures are a guide only.
[1] **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 FIRETEX® Platinum-120 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.

FIRETEX® Platinum-120

SURFACE PREPARATION

Steel: 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

Mix the entire contents of Part A thoroughly using a double helical mixing blade and a heavy-duty power mixer such as an Intex MegaMixer® AMX 620 until the contents are uniform. Mix part A and part B together with the same power mixer until a thoroughly homogeneous mixture is achieved. While power mixing, scape sidewalls of pail with a long handled metal spatula, drawing the product into the main body of the material. Transfer the mixed material into a clean container and remix thoroughly before pouring into the stainless steel hopper. NOTE: A large volume of material will set up quickly if not applied or reduced in volume in a timely manner. Product needs to be gravity fed through a material hopper – material will not feed through a suction tube.

BRUSH/ROLLER

Suitable for small areas only. When brushing and rolling additional coats may be required to attain the specified thickness. 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

Airless Spray: Graco® K60FH2 (60-1 Pump) or equivalent Thinning is not recommended. Apply in multiple wet coats overlapping each pass 50%.

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Filters
0.021" – 0.023" (533 - 584 microns)	3,600 – 4,000 psi (248 – 290 bar)	3/8" or ½" (9.5 mm or 12.7mm)	No Filters in Pump Manifold or Spray Gun

NOTE: A 2 metre x 3/8"" (9.53 mm) whip hose is allowed at the end of a ½" material hose for greater ease of application. The use of nonrestrictive swivel connection off the spray gun is recommended.

Add the following to a Graco® K60FH2 Airless Pump:

- Graco® SS hopper, part #24X570 – Gravity feed product to lower
- Graco® 4500w/240v inline heater & mounting Kit, part No's 245863 & 17V573 – Used to reduce viscosity. The material temperature at the spray tip should be 35ºC.
- Graco® XHF Direct feed spray gun & XHD RAC Switch Tip and Guard

PUMP MAINTENANCE

After every 5- 6 kits the equipment should be flushed with solvent. This is accomplished in two stages. First, Duthin® 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® 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® Consultant for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the written consent of Dulux® 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 Dulux® FIRETEX® Platinum-120 is applied over suitable primers. Do not use this product without consulting a Dulux® Protective Coatings Consultant.

CLEAN UP

Clean all equipment with Duthin® 450 (920-81942) immediately after use. As an alternative CR reducer may be used. Refer to the Dulux® Epoxy Intumescent Application Guide for more details.

APPLICATORS

Dulux® FIRETEX® Platinum-120 must be installed by a Dulux Registered Intumescent Applicator.

SAFETY PRECAUTIONS

Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEETS are available from Customer Service (13 23 77) or www.duluxprotectivecoatings.com.au

STORAGE

Store in a well-ventilated area under cover. Keep containers closed at all times. Shelf life – 24 months

HANDLING

As with any chemical, ingestion, inhalation and prolonged or repeated skin contact should be avoided by good occupational work practice. Eye protection approved to AS1337 should be worn where there is a risk of splashes entering the eyes. Always wash hands before smoking, eating, drinking or using the toilet.

USING

Use with good ventilation and avoid inhalation of spray mists and fumes. If risk of inhalation of spray mists exists, wear combined organic vapour/particulate respirator. When spraying, users must comply with their respective State Spray Painting Regulations.

FLAMMABILITY

Although this product is not flammable the cleaning agent is flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. Fight fire with foam, CO_2 or dry chemical powder. On burning will emit toxic fumes.

WELDING

Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.

COMPANY INFORMATION

Dulux Protective Coatings a division of

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PACKAGING, TRANSPORT AND STORAGE

PACKAGING	Available in 18.6 kg kits
TRANSPORTATION WEIGHT	1.3 kg/Litre (Average of components)
DANGEROUS GOODS	Part A: Non Dangerous Goods Part B: Class 8 UN 2735