

Product Name:	CHEMICAL RESISTANT INTUMESCENT PAINT
Product Number:	IP 1897 kit (parts A & B)
Product Description:	A two pack, spray or brush applied, air drying or force dry intumescent coating for application to aircraft, turbine components and other products made from GRP, titanium, aluminium, polyurethane foam, or other substrates to protect from the effects of fire. The coating thickness can be as little as 1/10th of alternative coatings. Designed to be a more resistant and adhesive coat after being burned, to resist high air movement over the intumescent coating. Supplied for use either brushing or spraying. Used on parts and sub-assemblies of Airbus for doors of the A320 and A340 aircraft; on Eurocopter EC135, plus many parts of Rolls Royce engines including composites and control boxes.
Approvals/Specifications:	BSX 37 Goodrich/Aero Engine Controls spec 1897 Complies with FAA 5- minute fire resistance test, and 15 minute FAA fireproof test. Resistance is film thickness dependent
Performance:	With stands 180ºC (360ºF) 100 hours, and humidity when air dried and sealed for one week or force cured 30 minutes at 125ºC (255ºF) and sealed
	Formulated to work at –70°C
	3 Hours at 70ºC Skydrol resistant – Pass
	Adhesion X Hatch - Pass
	Withstands 1100°C burner test for 5 minutes when film thickness is at least 300 microns
	Typical performance is demonstrated as follows:
	Two 0.6 ² metre panels of 4 mm anodised aluminium, one coated with IP1897 using the described method and the other left un- coated. Both are pressurised to 5 p.s.i. An S.A.E. 15-cm diameter propane burner (116350 BTU) is positioned 10 cm from the centre of each panel.



Effect of Heating	Non-Coated Panel	Coated Panel
1 Minute 2 Minutes formed and holds to	Panel distorted outwards Deterioration rapidly increasing	Panel intact Intumescent paint barrier
2 Minutes + 5 Minutes	Explosion, panel split centre blown out Panel completely melted	substrate No change Condition satisfactory internal maintained
Components:	Two component product, mix 8:1 Thinner - 665-550-025, IP9064-T	by volume with catalyst IP1897B HIN, IP985-REDUCER
Application:	Ensure that surfaces are clean and dirt free. Dependent upon substrate, apply primer coat or sealer coat:	
	6500 chrome free primer.Composites: Apply 1 coat IP composites	-6362 chromate primer or IP9064- 2439 green tinted sealer for used by Approval with IP Technical
Paint Preparation:	Stir thoroughly before use.	
	catalyst IP1897B. Allow 15 minu	be applied at this viscosity; can be
Application Method:	Spray; compliant gun technology manufacturers data regarding at	-
	 apply further 2 cross coats Allow to air dry for minimum off then force cure for 90 min Repeat states 1 and 2 to ach the film thickness is achieve 	hieve required film thickness. Once d, allow the coating a minimum of ce cure for 90 minutes @ 80°C, or



 Apply 1 coat IP9064 quality epoxy, IP3 Low VOC epoxy or IP6 quality polyurethane finish, dependent upon end usage of component.

Drying Curing:

Refer to drying/curing details in application method

Air Dry:

- Touch Dry: minimum 40 minutes
- Through Dry: minimum 16-24 hours

Heat Cure:

- Flash off: 40 minutes
- Force Cure: 90 minutes @ 80°C, or 30 minutes @ 125°C

Technical Properties:

Supply Viscosity:	Ready for use when mixed
VOC Content:	Refer to SDS
Colour:	White
Pack Size:	5 litre
Density:	Refer to SDS – section 9
Gloss:	MAtt
Thinner:	665-550-025
Solvent/Clean Up:	40006 Gun Wash
Catalyst:	IP1897B

Storage:

Highly flammable liquid: store and use in accordance with the flammable liquid regulations

Shelf Life: 12 months temperate; 6 months tropical

Before use, refer to Product Safety Data Sheet



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