

Product Name:	Polyurethane Erosion and UV Resistant Coating
Product Number:	IP80-158
Product Description:	Multi pack Elastomeric coating formulated to provide excellent erosion resistance.
	High performance chemical resistant polyurethane coating that provides exceptional erosion and UV resistance compared to typical exterior durable 2 pack coatings
	Suitable for use in a variety of applications, but typically on aero engine spinners, wing leading edges, engine nacelle leading edges and radar housings for aero applications.
Approvals/Specifications:	Formulated to meet the requirements of Def Stan: 80-158 when used a system with suitable Epoxy Primer and/or Polyurethane Colour coat.
Performance:	Designed to provide a thick Flexible coating for the protection of surfaces against sand, dust, small particle and rain erosion. In- house testing demonstrates a marked improvement over current IP6-CLEAR with regards to both flexibility and erosion resistance. Tested as a system: IP9064-6362 (BS2X33 Primer), IP6-0000
	(BS2X34A/B White Gloss), IP80-158 Clear. Mandrel testing: ≥ 2mm - Pass Erosion resistance – 80 grit Aluminium Oxide erosion to MSRR9910, ≤16mg coating loss per 4.5kg erosion grit.

Indestructible Paint Ltd, 16-25 Pentos Drive, Sparkhill, Birmingham B11 3TA Tel: +44(0)121 702 2485, Fax: +44 (0)121 778 4338, E-Mail: <u>sales@indestructible.co.uk</u>, Web: <u>www.indestructible.co.uk</u> Registered in England: 1376995



Environmental degradation – Pass ≥ 500 hours QUV exposure when applied over a 2pk PU or 2pk Epoxy Base Layer. The combined coating is resistant to gloss or flexibility degradation of the top IP80-158 layer and does not demonstrate UV Light damage to the base PU or Epoxy coatings thus preventing delamination of the coating from substrate.

Components:

- Base A IP80-158-Part-A
- Base B IP80-158-Part-B
- Reducer IP-MEG-Reducer

Application:

Surface Preparation:

Ensure surfaces are clean and free from any dust, dirt or surface contaminants

Metals:

Light shot blast

Base Coat Selection for IP80-158 may be:

- (1) Apply 1 coat 2 pack etch primer to BSX32 (IP9064-4853) at
 7-10 microns plus 1 coat of 2 pack strontium chromate primer to BSX33 (IP064-6362)
- (2) IP9064-6362 Chromate Primer, IP3-6362 Low VOC
 Chromate Primer, IP9064-6500 Chrome Free Primer or IP3-6700 Chrome Free Primer.
- (3) IP6 Range Top coat if desired to BS X2 34
- (4) Composites: IP9064 or IP3 2pk epoxy colour coat applied as adhesion promoter onto composite structures to provide primary bond layer and/or base colour.



Paint Preparation:	Mixing Ratio:		
	- Part A – IP80-158-Part-A: 1 p	art by volume	
	- Part B – IP80-158-Part-B: 1 p	art by volume	
	- Part C – IP-MEG-REDUCER:	1 to 2 parts by volume	
	Chin the recent has before uses to ensure		
	Stir thoroughly before use to ensu	re full mixing – mixed pot life up to	
	4 hours.		
Application Method:	Apply by spray, conventional, HVL	P or compliant.	
	Apply in smooth thin coats, buildin	g film thickness slowly. Build	
	coating until a consistent wet film is achieved and allow to gel.		
	Avoid application of thick films as	these can result in runs and can	
	lead to solvent popping.		
	Recommended application is to ap	oply 3 coats with 4 hours between	
	each coat or a 30-minute part cure @ $80 \pm 5^{\circ}$ C.		
	Final cure 30 minutes @ $80 \pm 5^{\circ}$ C and then ramped up for 4 hours		
	@ 125 \pm 5°C, or air dry for a minimum of 7 days at room		
	temperature ≥17ºC		
Drying Curing:	Force Cure:		
	- Flash off: 15-30 minutes		
	- Cure:		
	• Pre Cure: 30 minute	es @ 80 ± 5°C	
	• Full Cure: 4 hours		
	Air Drying:		
	Minimum 7 days at ≥17ºC		
Technical Properties:	Supply Viscosity:	Ready for Use	
	Pot Life:	Up to 4 hours	
	Flash Point:	3-5°C	
	VOC Content:	450g / litre	

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	Colour:	Clear
	Pack Size:	1.26kg kit
	Density:	<i>Part A</i> : 1.01 g / ml
		<i>Part B</i> : 1.07 g / ml
	Gloss:	Dries to glossy finish
	Thinner:	IP-MEG-Reducer
	Solvent/Clean Up:	40006
	Catalyst:	Sold as Kit
	Theoretical Coverage:	9m² / kg per 50 micron
Storage:	Highly flammable liquid: store and liquid regulations	use in accordance with the flammable
	Shelf Life: 12 months temperate;	6 months tropical
	Before use, refer to Product Saf	ety Data Sheet
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Safety Data Sheets:	For Safety Data Sheets pleas	e contact our Sales Department:
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