



Protective Film Plus

Description

Evolving Elements Protective Film Plus is a transparent peelable protective coating designed to protect non-porous surfaces from damage caused by; paint, mortar, render, abrasion, staining, spillage and scratching.

The liquid applied coating dries to form a tough film that will protect surfaces such as:-

Suitable substrates

- Glass
- Aluminium
- PVCu
- Stainless Steel
- Powder coated surfaces
- Painted surfaces
- Most non-porous surfaces for up to 12 months
- Please note:- not suitable for etched or sand blasted glass

Features and Benefits

- Simple application by 20mm Long Nap roller, airless spray or HVLP
- Cost effective
- Prevents damage caused by tradesmen during construction
- Environmentally friendly, water based, no poisonous fumes, not flammable
- Non-aggressive
- Low odour
- Available in Blue (transparent) or White (opaque) finish
- Easy to remove
- Fast air drying

Substrate Preparation & Application

It is recommended that you first apply a test patch of Evolving Elements Protective Film Plus to ensure compatibility before proceeding with the entire job.

All surfaces must be clean, dry, free of dust, sand and contaminants with special attention to the removal of silicone, grease, oil, wax, mould, plaster and paint overspray.

- Areas not to be coated should be masked and protected.
- All surfaces to be coated must be clean, sound, free from contaminants including; oil, mould release, dust, dirt, silicone, mud, grease, salt, efflorescence, animal droppings and any loose or flaking material.
- Mix thoroughly with a broad, flat stirrer, using an upward lifting action or an electric drill.
- Evolving Elements Protective Film Plus can be applied using a roller, brush, HVLP spray equipment or airless spray.
- If using spray equipment, a 17 or 19 thou tip and white gun filter is recommended.
- Apply a first coat of Elements Surface Protective Film Plus to the substrate paying particular attention to vulnerable areas such as corners. Allow to dry for 15 minutes or until coating is tacky.
- Apply a second coat, thicker again paying attention to corners. If the coating is too thin in these areas, it will be difficult to remove.
- Use a wet film gauge to check the coating's wet film thickness (WFT) is at least 250-300 Microns (130 Microns DFT).
- Ensure adequate ventilation when applying product.
- For best application apply at temperatures between 14°C and 25°C. Avoid applying product if temperature is below 10°C and above 30°C.
- Leave to dry in a rain free environment. Drying times can vary according to the relative humidity and ambient temperature. Maximum strength will be achieved in 3 days.

Substrate Preparation & Application

- If the coating is damaged at a later date a new coating of Evolving Elements Protective Film Plus can be applied to the damaged area, it will bond to itself providing the perfect repair.
- Evolving Elements Protective Film Plus can be removed 3 days up to 12 months after application simply by starting from a corner and carefully peeling back the coating from the surface with no residue.
- Avoid removing Evolving Elements Protective Film Plus in low temperatures as the film may be brittle and difficult to peel.
- Evolving Elements Protective Film Plus is best removed at temperatures 14°C and 20°C.

Important notes before you begin

- **TEST:** - You should always apply to a small area to test the substrates suitability. Allow to dry for 48 hours, and then check that it will peel away from each substrate.
PLEASE NOTE:- Do not apply to acrylic surfaces, Evolving Elements Protective Film Plus will bond permanently.
- **MASKING:** - Mask all areas that you don't intend to coat. Items such as gaskets / locks, handles, gaps and vents should always be masked with a suitable low-tack tape. Gaskets / joint sealants / foam / backer rods all need to be taped to stop the coating from anchoring around these joints creating a mechanical bond which will make removal difficult.
- **WEATHER:** - Evolving Elements Protective Film Plus is best applied between 14°C and 25°C. Do not apply when humidity of over 85% or if the surface is likely to be exposed to direct rainfall before Evolving Elements Protective Film Plus has dried.

- **WET FILM THICKNESS:** - Ensure you have a wet film gauge. A minimum Microns dry film thickness (DFT) must be achieved, anything less may result in Evolving Elements Protective Film Plus becoming difficult to remove. By spray - apply with airless spray gun, using a 17 thou tip size to achieve a minimum WFT of 250-300 Microns (130 Microns DFT).
20mm Long Nap Lambswool Roller - Apply 2 coats, allowing 1st coat to tack off. Apply generously to achieve a minimum WFT of 250-300 Microns (130 Microns DFT).
- **TACK FREE DRYING TIME:** - A WFT of 250-300 Microns will be tack free in approximately 120 minutes at room temperature. Force drying may be used by using moving air and increasing the surface temperature to a maximum 50°C.

Shelf-Life - Transport & Storage



Unopened Containers - Maximum two (2) years from date of manufacture when stored correctly. Pails should not be stacked more than three (3) high during transportation and must be transported upright, Store in a cool place, upright, out of direct sunlight and above 4°C.

For further information refer to MSDS for Evolving Elements Surface Prime Plus

Safety and Handling

Refer to MSDS for Evolving Elements Protective Film Plus before use. For further information on Material Safety Data Sheets, contact Evolving Elements on +61 3 9357 6644 or visit www.evolvelements.com.au

Technical Specifications

Packing	Coverage	Application Thickness
15L Plastic Pail (@15Kg/Pail)	3.5-4m ² /L	250-300 Microns
No. of coats	Typically 2 coats	
Application method	 Roller, Brush, Spray	
Clean Up	 Clean all with water after use	
Appearance	Viscous coloured Liquid	
Type	Water based coating	
Drying Time(@25°C & 50% RH)	Tack Free -120min / Overcoat -when semi dry / Fully Dry N/A	
WFT - Wet film thickness uM	250-300 Microns	Vol Solids %: 52 ± 2 %
DFT- Dry Film Thickness uM	130 Microns	
Gloss level	Gloss	
Specific Gravity	1.02-1.03	
Viscosity @20rpm	11,000 ± 2000cP @ 20°C	
Max Stress / Break Stress / Break Force	N/mm ² 3.10866 / N/mm ² 2.99245 / (N) 6.09146	
Elongation	>600%	
pH	8.5 -9.5	
Thinner	Water - do not thin, ready to use	
Shelf life	24 Months from date of mfg (sealed)	

Warranty

JPS Coatings provides a material replacement warranty against any defect in manufacture for a period of ten years when applied correctly by a skilled and experienced applicator in accordance with all current application criteria, including but not limited to, substrate type and preparation, application rates and methods, prevailing weather conditions and protection of finished work. Application dates, product batch numbers and quantities must be recorded and supplied as a minimum to effect potential product failure investigation. JPS Coatings provides no warranty, expressed or implied, against damage due to movement of the substrate or structure. JPS Coatings cannot accept responsibility for variations in colour, strength, defects, appearance or workability etc resulting from on-site mixing procedures and other application conditions as they are not within the control of JPS Coatings.

This information is provided with respect to the listed JPS Coatings products;

(a) You review the Technical Data Sheets (TDS) and Safety Data Sheets (SDS) before you use or handle the product; (b) the product be used only in accordance with the information provided by JPS Coatings; (c) the product be transported and handled in accordance with the SDS and relevant TDS; and (d) you thoroughly test the product, using the recommended application method on a sample of intended substrate, before using the product. The information in the technical data sheet was prepared using information gathered during product development. While JPS Coatings endeavours to update this information and maintain the accuracy of its contents, JPS Coatings cannot guarantee that the information is wholly comprehensive. JPS Coatings recommends that you conduct such additional investigations as may be necessary to satisfy yourself of the accuracy, currency and comprehensiveness of the information on which you rely in using and handling the product. If you require further information please contact JPS Coatings Office. To the full extent permitted by law, JPS Coatings liability for breach of a condition or warranty implied into the contract for sale between JPS Coatings and you by law is limited at JPS Coatings election to: (a) the replacement of the product; or (b) payment of the cost of replacing the product. The technical information and suggestions for use and application are given in good faith. Since conditions of use are beyond the manufacturer's control, information contained herein is without warranty, implied or otherwise. The manufacturer does not assume any liability for any loss or injury resulting from the use of the product. Cooler temperature, higher film thickness and higher humidity conditions will require longer drying times

Protective Film Plus - PRODUCT DATA SHEET (PDS) Version 1.0 TDS April 2021

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COATINGS

Adhere to the following safety measures;

- Avoid inhalation of the vapour, prolonged skin contact and particularly eye contact.
- Wear protective clothing to minimize skin contact and wear goggles where splatter is likely.
- Where spills occur, soak up liquid spillage with sand/sawdust and dispose of in a sensible manner. Do not permit run-off to sewer, storm water or open bodies of water.
- Storage- no specific issues, store away from food and drink.



First Aid Measures

Ingestion

- If swallowed, wash out mouth with water. Do NOT induce vomiting. Drink at least two (2) glasses of water. Seek medical attention.

Eye

- Wash with copious amounts of water for 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into non-affected eye. Seek medical attention.

Advice to Doctor

- Treat symptomatically.