

Print and Peel

Product data sheet

Print and Peel offers a cost effective and convenient method for protecting substrates from scratches and scuffs both during and post production.

PRODUCT DESCRIPTION

Print and Peel is a water based screen printable varnish designed to be selectively printed onto a range of surface finishes to act as an easily removable protective mask.

PRODUCT APPLICATIONS

Print and Peel is suitable for the protection of:

- All MacDermid Autotype substrates
- Printed windows
- Polycarbonate
- PVC labels
- Gloss graphic inks

Print and Peel may be difficult to remove from some metal surfaces and from some matt inks. Adhesion performance of inks and lacquers applied to surfaces which have previously been printed with Print and Peel may be altered. Full testing is recommended.

PRODUCT PERFORMANCE

Benefits:

- Screen printable, convenient and easy to use
- Water based, non hazardous, environmentally friendly and easy to wash up
- Protects substrates from scratches and scuffs both during processing and delivery to customer
- Can be removed in a single sheet by picking up an edge with a fingernail or a piece of tape
- Leaves no residue when removed
- Peels very easily but remains in place during normal processing
- Adhesion does not tighten over time
- Dark blue colour to confirm presence visually



PROCESSING RECOMMENDATIONS

Stir well before use

Process	Recommendation	Comment
Mesh	30-77 threads/cm	A finer mesh may produce prints containing less air, but will reduce the dry film thickness and may make the film more difficult to peel on some substrates.
Preparation	UMP	It is important the mesh is thoroughly degreased with Universal Mesh Prep or equivalent product. Failure to do this may result in Print and Peel not forming an even film over the mesh during printing.
Stencil	Autotype Plus 7000	A suitable water-resistant photo emulsion To prevent edge residue during peeling ensure printed edge is clean and sharp. A high stencil profile is recommended.)
Squeegee type	60-70 Shore A Sharp blade, synthetic	Heavy flood improves printability.
Squeegee angle	High angle 70°-80°	
Thinner	If thinning is required, 5% water addition is recommended	The varnish is designed to be press ready.
Print Speed	Slow, between 20-25cm/s	
Print thickness	Aim for a printed thickness of 6-15µ	Thin prints may be harder to remove., however, thicker prints are easier to remove on high-grab surfaces
Drying	Jet dryer 80-90°C; 1-2 minutes	Some thermally sensitive substrates such as PVC may require lower drying temperatures for a longer time period. For best edge quality, jet dry as soon after printing as possible. It is normal for the finished product to contain air bubbles, these do not affect the product's performance (Note: Exposure to temperatures greater than 90°C for periods longer than the recommended drying time, and direct exposure to high intensity UV light from curing units will increase the adhesion of Print & Peel to some substrates.)



Wash up: Warm or hot water. Rinse in washout booth.

Coverage: Approximately 22m²/kg under recommended printing conditions.

Printing on Autotex Softouch

As with our other Industrial films, Print and Peel can be used to protect window areas on Autotex Softouch from damage during processing. The fine textured surface of Softouch does have a higher level of mechanical grab to Print and Peel and we advise the following process recommendations:

- Print thicker or multiple layers to increase the inherent strength of the Print and Peel film,
- Avoid contact of the Print and Peel with the Softouch surface by reducing the area of the Print and Peel and allow for an unprinted border around the window. Or,
- Print to an exact size over the window for the same reason.

SHELF LIFE

Print and Peel has a 12 month shelf life.

HEALTH AND SAFETY

ENSURE ALL USERS READ THIS INFORMATION

This product is solely intended for use as an industrial printing lacquer for protection of substrates from scratches and scuffs. MacDermid Autotype accepts no liability whatsoever if used for any other purpose.

Handling: Use PVC or rubber gloves when handling.

Spillage: Methods for cleaning: Flush small quantities to waste with water.

Environmental precautions: Do not allow in fresh water drains.

FIRST AID

Ingestion: Dilute with water and seek medical advice.

Eyes: Irrigate with clean water for 15 minutes, holding eyelid from eye.

Skin: Wash immediately with soap and water. Apply skin cream.

ENVIRONMENTAL INFORMATION

Print and Peel is a water-based dispersion of polymers. It is not harmful and may be regarded as biodegradable. It contains no materials listed on the EC Black or Grey lists.

LEGISLATIVE DIRECTIVES

This product does not knowingly contain any phthalates, or substances listed in the European End-of-Life Vehicles (ELV), Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS) or Waste Electrical and Electronic Equipment (WEEE) Directives.



EC Regulation 594/91 classifies ozone depleting substances into a number of different groups, I-VI. Print and Peel does NOT contain any substance classified in groups I-VI nor have any of the substances been used by MacDermid Autotype during manufacture. For details of the content of each of the groups, please see separate ozone depleting substances document

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