

PRINT & 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.

1. PRODUCT DESCRIPTION

Print & 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.

2. PRODUCT APPLICATIONS

Print & Peel is suitable for the protection of:

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

Print & 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 & Peel may be altered. Full testing is recommended.

3. 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



4. PROCESSING RECOMMENDATIONS

STIR WELL BEFORE USE

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.

It is important the mesh is thoroughly degreased with Universal Mesh Prep or equivalent product. Failure to do this may result in Print & Peel not forming an even film over the mesh during printing.

Stencil

A suitable water-resistant photo emulsion, e.g. Autotype Plus 7000.

(Note: To prevent edge residue during peeling ensure printed edge is clean and sharp. A high stencil profile is recommended.)

Squeegee

60-70 Shore A, sharp blade, synthetic. Heavy flood improves printability.

Squeegee Angle

High angle 70°-80°.

Thinner

The varnish is designed to be press ready. If thinning is required, 5% water addition is recommended.

Drying

Jet dryer 80-90°C, 1-2 minutes. Use with 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.)

Print speed

Slow, between 20-25cm/s.

Thickness of print

Aim for a printed thickness of 6-15µ. Thin prints may be harder to remove.

Wash up

Warm or hot water, Rinse in washout booth.

Coverage

Approximately 22m²/kg under recommended printing conditions.

Shelf life

Print & Peel has a 12 month shelf life.

5. HEALTH & 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.

5.1 Handling

Use PVC or rubber gloves when handling.





5.2 Spillage

Methods for cleaning:

Flush small quantities to waste with water.

5.3 Environmental precautions

Do not allow in fresh water drains.

6. FIRST AID

6.1 Ingestion

Dilute with water and seek medical advice.

6.2 Eyes

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

6.3 Skin

Wash immediately with soap and water. Apply skin cream.

7. ENVIRONMENTAL INFORMATION

Print & 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.

8. OZONE DEPLETING SUBSTANCES

EC Regulation 594/91 classifies ozone depleting substances into a number of different groups, I-VI. Print & 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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