

PLUS 1-SR

Pre-sensitised Photopolymer Emulsion

DESCRIPTION

PLUS 1-SR is a blue pigmented pre-sensitised photopolymer direct emulsion.

Applications

PLUS 1-SR has been formulated for all high quality applications using solvent based and UV curing inks, including electronics, nameplates and graphics/POS.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

- One pot photopolymer, medium high solids, good coating quality, easy decoating and resistant to a wide range of solvent and UV curing inks. For use on medium to fine mesh counts.
- Ready to use and perfect for large format screens. Good all-round product.

WORKING INSTRUCTIONS

Mesh Preparation

Unused polyester/nylon	Autoprep Gel and Universal Mesh Prep
Used polyester/nylon	Universal Mesh Prep, Auto Degreaser Concentrate
Stainless Steel	Auto Degreaser Concentrate

Coating & Drying

Using a good quality coating trough, proceed as follows:

1. Apply 2 coats to the print side of the screen.
2. Apply 2 coats to squeegee side.
3. The screen should be dried horizontally, squeegee side up and stored under dark or yellow light conditions. Dry the screen at a maximum temperature of 30 °C (86 °F).
4. Additional face-coats may be applied to the print side of the screen with intermediate drying.

Exposure

Correct exposure is essential for optimum stencil performance. Underexposure will give a weak stencil and reduce resistance.



Remove dust from the surface of the stencil and tape positive in position. Place entire screen in a suitable vacuum frame and expose. We recommend use of the Autotype Exposure Calculator for test exposures to ascertain correct timing.

'Correct' exposure can be determined by hardness and 'through cure' of the stencil, and resolution of required detail. When correctly exposed, emulsion should not be easily removed from the squeegee side of the wet stencil when rubbed with a finger. Exposure times below should be used as a guide:-

Exposure Time*

LAMP	DISTANCE	SECONDS								
		0	20	40	60	80	100	120	140	160
2kW metal halide	120 cm									
3kW metal halide	120 cm									
5kW metal halide	120 cm									
125W mercury vapour	50 cm									
UV fluorescent tubes	10 cm									

* Based on 2+2 coating on 120/cm (305/inch) amber monofilament polyester mesh.

Washout & Drying

Wash out the screen from both sides with a strong spray of water. Continue the washout until all parts of the image appear clean and sharp. Blot off surplus moisture and dry at a maximum temperature of 30 °C (86 °F). Spot out pinholes with sensitised emulsion.

Stencil Removal

Remove ink from the screen with an Autosolve screen cleaner. Then apply Autostrip to both sides of the screen and leave to stand for 5 minutes. The stencil can then be removed with a strong water jet. If a stain or ghost image still remains, use Autokleen Plus.

For more information on how to use MacDermid Autotype products, go to the How to Guide section at macdermid.com/autotype.

SHELF LIFE & STORAGE

The emulsion should be stored between 5 to 20 °C (41 to 68 °F) for optimum shelf life.

The shelf life is 24 months when stored as recommended.

Some separation can occur with ageing and the re-mixing of separated material should not be attempted, as this could result in bits within the emulsion bulk. The loss in the form of separated material is very minimal and will not affect the functionality of the final product in any way.



PACKAGING

PLUS 1-SR is supplied in trade packs of 6 x 1 Litres, 4 x 4 Litres, 1 x 20 Litres.



SAFETY & WARNING

MacDermid Autotype recommends that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use.

Safety Data Sheets are available from MacDermid Autotype.

WASTE TREATMENT

Prior to using any recommendations or suggestions by MacDermid Autotype for waste treatment, the user is required to know the appropriate local/state/federal regulations for on-site or off-site treatment which may require permits. If there is any conflict regarding our recommendations, local/state/federal regulations take precedent.

CONTACT INFORMATION

To confirm this is the most recent issue, please contact MacDermid Autotype
 salessupport@macdermidautotype.com

North America MacDermid Autotype Inc. 5210 Phillip Lee Drive Atlanta, GA 30336, USA (404) 696 4565 autotypeusinfo@macdermid.com	Europe MacDermid Autotype Ltd. Grove Road, Wantage, Oxon OX12 7BZ, UK +44 (0) 1235 771111 salessupport@macdermidautotype.com	Asia MacDermid Autotype Pte Ltd. 14 Joo Koon Crescent, Singapore, 629014 +65 643 00701 sginfo@autotype.com
---	--	--

Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product.
 READ IT THOROUGHLY PRIOR TO PRODUCT USE.

DISCLAIMER: All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. No statement or recommendation shall constitute a representation unless set forth in an agreement signed by officers of seller and manufacturer. NO WARRANTY OR MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE. The following warranty is made in lieu of such warranties and all other warranties, express, implied, or statutory. Products are warranted to be free from defects in material and workmanship at the time sold. The sole obligation of seller and manufacturer under this warranty shall be to replace any product defective at the time sold. Under no circumstances shall manufacturer or seller be liable for any loss, damage or expense, direct or consequential, arising out of the inability to use the product. Notwithstanding the foregoing, if products are supplied in response to a customer request that specifies operating parameters beyond those stated above, or if products are used under conditions exceeding said parameters, the customer by acceptance or use thereof assumes all risk of product failure and of all direct, indirect and consequential damages that may result from use of the products under conditions, and agrees to exonerate, indemnify and hold harmless MacDermid Incorporated therefrom. No suggestion for product use nor anything contained herein shall be construed as a recommendation to use any product in infringement of any patent rights, and seller and manufacturer assume no responsibility or liability for any such infringement.

® Registered Trademark of MacDermid Performance Solutions. ™ Trademark of MacDermid Performance Solutions.
 © Platform Specialty Products Corporation and its subsidiaries 2016.

