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Version #7 (0317)

Approved by J. S.

Delicate product “HANDLE WITH CARE”!

Product

ColorTrans™ CT2500

Optically Clear Permanent / Self-wetting Removable, 2nd surface Mounting Film

Permacolor

The **Permacolor** system is a series of pressure sensitive products for mounting and protecting in the imaging industries. Pressure sensitive **Permacolor** provides fast, efficient processing through cold roll lamination techniques without the need for heat, drying or messy coating operations.

Product Description

ColorTrans CT2500 is a 2-mil clear polyester film coated on one side with an aggressive **Permanent** clear acrylic PS adhesive and on the other side with a unique **Removable self-wetting clear silicone** PS adhesive for dry applications. The removable side is wound *out* for ease of application. A polyester release liner protects the permanent side and a white OPP liner protects the removable side. The two moisture stable liners prevent curl and allow for an easy release resulting in a distortion-free adhesive surface.

CT2500 optically clear, two-side coated film was designed for 2nd surface, or face-mounting, and for back-mounting transparencies to glass windows, Plexiglas® or other transparent substrates for both indoor and outdoor applications. **CT2500** helps protect mounted images from fading caused by ultra-violet (UV) light exposure.

Physical Properties

Property	Typical Values		Test Method
Thickness in inches (µm)			ASTM D-645
Carrier plus adhesive	0.0032 (81)		
Total product	0.007 (178)		
Quick Tack lb./in.² (N/25 mm)	Permanent	Removable	Mactac CTM-25
Stainless Steel	2.8 (12.3)	2.5 (11)	
Peel lb./inch (N/25 mm)			PSTC - 3
Stainless Steel - 30 minutes	4.6 (17.5)	1.0 (5.2)	
Glass - 30 minutes	5.2 (22.7)	1.0 (7.0)	
Shear Hours to Fail			PSTC - 7
Stainless Steel	100+	24+	
Temperature Ranges			
Application for best results:	50° to 120°F (10° - 49°C)		
End Use:	-20° to 300°F (-29° to 150°C)		

Shelf Life

Two years when stored at 75°F (24°C) and 50% relative humidity or less. Note: Mactac recommends that rolls be stored on end or suspended from the core.

Durability

CT2500 will give 5 years under standard



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years under standard conditions. Durability can be up to 20 years on most printing files.
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Removability

This product has 6 month removability after application from glass, Plexiglas and acrylic sheeting. The removability of **CT2500** may be affected by the following substrates: polystyrene, nitrocellulose painted surfaces and soft PVC. With such substrates an increase of adhesion over time may occur and adhesive residue on removal may be noticed.

Limitations

- 1) **The user is responsible for determining the product's suitability, including adhesion and if needed, removal characteristics when used in applications other than listed specifically in this Performance Guide.**
- 2) **If there are any questions about applications, please contact your Mactac sales representative to discuss your requirements for recommendations.**
- 3) **If this is a printed Performance Guide it is an uncontrolled document. Please check the Mactac website for the latest, most up-to-date version.**

General Comments

1. This product is an optically clear, two sided face (2nd surface) mounting film is a delicate roll **it must be handled with care**. Because it is an optically clear adhesive, poor handling such as bumps, bangs, smacks, rolling across tables, etc. can cause bad artifacts like wrinkles, adhesive distortions, release liner tunneling and telescoping rolls to happen.
2. Where exposure to chemicals, solvents or high pressure wash is anticipated, Mactac recommends sealing the edges with varnish, silicone or other sealant to prevent penetration by these liquids.
3. Prints should not be applied onto dusty, dirty, oily or oxidized surfaces.
4. The mounting board must be properly prepared prior to mounting the image. This may include wiping with alcohol, light sanding or surface sealing depending on the board. Contact your board supplier for their recommendation.
5. Mactac's pressure sensitive mounting films are intended for "Cold Roll Lamination" (50°F - 120°F). The addition of heat while simultaneous mounting with Thermal Overlaminates may result in curl or have other detrimental effects on the finished product.
6. Whenever possible, always test first to ensure end-use suitability.
7. When using **CT2500** on polycarbonate, polystyrene, polymethyl-methacrylate substrates, we recommend conducting compatibility tests in normal use conditions. These types of panels tend to outgas when exposed to elevated temperatures, creating bubbles and/or tunnels between the panels and the mounting film. Conditioning these panels overnight in a controlled room above 60°C before mounting helps minimize this effect.



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- *Values given are typical and are not necessarily for use in specification.*
- *Product reinforced with 2-mil polyester during adhesion tests.*

IMPORTANT NOTICE: The information given and the recommendations made herein are based on our research and are believed to be accurate, but no guarantee of their accuracy or completeness is made. In every case, user shall determine before using any product in full scale production, or in any way, whether such product is suitable for user's intended use for their particular purpose under their own operating conditions. User assumes all risk and liability whatsoever in connection with their use of any product. The products discussed herein are sold without any warranty as to merchantability or fitness for a particular purpose, or any other warranty, express or implied. No representative of ours has any authority to waive or change the foregoing provisions, and no statement or recommendation not contained herein shall have any force of effect unless in an agreement signed by the officers of seller and manufacturer. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent without authority from the owner of the patent. The following is made in lieu of all warranties, express or implied: Seller's and manufacturer's only obligation shall be to replace or credit such quantity of the product proved to be defective at its discretion.

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