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Approved by J. S.

Product

IMAGIn® ROODLE™

RO628 Removable 6 mil Semi-Rigid PVC

Product Description

RO628 ROODLE is a 6.0-mil **matte** white, semi rigid calendered PVC film designed for UV screen, UV-Gel, solvent and eco-solvent ink jet and UV off-set printing. The product is coated on one side with an aggressive removable acrylic pressure sensitive adhesive and supplied with a 90# SuperFlat™ P.E. coated kraft liner.

RO628 is specifically designed for use as indoor wall posters and murals on smooth, flat painted drywall surfaces. ROODLE will can also be applied to many other flat surfaces, however we strongly recommend one test first for suitability.

Physical Properties

Property	Typical Values	Test Method
Thickness, inches (μm) Film plus adhesive	0.007 (200)	ASTM D-645
Quick Tack lb. /in² (N/25mm) Stainless Steel	2.1 (9.2)	MACtac CTM-25
Peel Adhesion lb./in. (N/25 mm) 180° on Stainless Steel - 24 hr.	2.1 (9.2)	ASTM D-903
Dimensional Stability, inches (mm) 48 hours @ 158°F MD CD	0.40 0.20	MACtac CTM-21 (Method D) 10" x 10" Sample Bonded to aluminum
Temperature Range Minimum Application: End Use:	32°F (0°C)* -40°F to 180°F (-40°C to 82°C)	
Surface Burning Characteristics (Meets ANSI, NFPA, & IFC as class A) Flame Spread Smoke Density	20 120	ASTM E84-01 or ANSI/NFPA 255 or IFC 8-1

- When applying ROODLE at temperatures below 50°F the semi-rigid vinyl face will become brittle. Therefore special care must be employed during installation to keep it from tearing.

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Durability

The outdoor durability of the unprinted film is 4 years. ROODLE has up to 2 year removability after application. Overlamination of the inkjet-printed material with Permacolor® overlaminates delays color fading that may occur over time. This color fading is mainly dependent upon the inks quality (see technical data sheets given by the ink manufacturers) and the pressure sensitive media being used.

Shelf Life

2 years from Date of Manufacture when stored at 60/77°F (15/25°C) and 50% relative humidity in the original package.

Approved Printing Methods

Screen Printing:

UV Cured	<input checked="" type="checkbox"/>	HP Indigo	<input type="checkbox"/>
Solvent	<input checked="" type="checkbox"/>	Off-set	<input checked="" type="checkbox"/>
WF Digital: UV Inkjet	<input checked="" type="checkbox"/>	UV Off-set	<input checked="" type="checkbox"/>
Eco-solvent	<input checked="" type="checkbox"/>	Thermal Transfer	<input type="checkbox"/>
True solvent	<input checked="" type="checkbox"/>	Flexographic *	<input checked="" type="checkbox"/>
Canon UVgel 356	<input checked="" type="checkbox"/>	UV Flexographic	<input checked="" type="checkbox"/>
Latex	<input checked="" type="checkbox"/>	Narrow Web UV Inkjet	<input checked="" type="checkbox"/>

* **Flexographic Printing** requires a topcoat. WVG000113 and WVF010516 have been approved by ACTEGA Coatings and Sealants (www.altana.com) as in-line coat-able ink primers.

To achieve the best possible print quality, please make sure that the correct ICC profiles or printer settings are used. Profiles can be downloaded from www.mactac.com. Printer and heater settings and ICC profiles can also be downloaded from some O.E.M. or software manufacturer's websites.

The ICC profiles are provided solely as a customer resource. Print environments, the individual nature of printing systems, inks and software can significantly affect output. It is the customer's responsibility to determine the suitability of any profile for use in their specific print environment.

Limitations

Due to the wide variability of interior walls, sealants and paints, no claims for successful applications to or removal from painted wall surfaces are made by Mactac. The removability of ROODLE may be affected by the following substrates: polystyrene, nitrocellulose painted surfaces and soft vinyl.

With such substrates an increase of adhesion over time may occur and may leave adhesive residue on removal.

- 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**

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Recommendations

Always test your ROODLE media with your inks and laminating films prior to commercial use.

- 1) **Printing Conditions:** Print in conditioned pressroom at $\pm 73^{\circ}\text{F}$ (23°C) and 50% RH. The maximum allowable ink saturation is 270%.
 - a. Images printed with solvent inks must be thoroughly dried prior to rolling for shipment. Retained solvent will affect edge adhesion.
- 2) **Laminating Conditions:** If the printed graphic is likely to be exposed to corrosive liquids, smoke, fumes, and highly polluted areas or there is a likelihood of scratching, it is highly recommended to laminate with **Permacolor ColorGard LUV Series** (intermediate) or **PromoGard** (economy) overlaminating films.
- 3) **Transportation Conditions:** To allow for easy transportation, IMAGIn media can be rolled up, with the image out, with a minimum diameter of 6 inches (15cm). When the image is not protected by an overlaminant, make sure the print is completely dry and protected in a plastic bag. During transportation or storage, avoid exposing them to extreme temperature and humidity changes.
- 4) **Installation Instructions (Reference TA2500 for detailed drywall applications):**
 - a. Before installing, unroll and lay flat. Allow the printed ROODLE to relax at room temperature for at least 90 minutes.
 - b. Do not allow the adhesive to touch any other areas of the product as this may result in damage to your ROODLE.
 - c. Do not install your ROODLE onto cold or damp surfaces, or anywhere near heaters, fires or central heating radiators.
 - d. If the wall has been freshly painted, allow it to fully cure, at least one week prior to installing your ROODLE. **Consult your paint manufacturer for proper cure times.**
 - e. Mactac recommends a test strip be included in the graphic for the end user to test on their walls. For best results insure the wall has a flat, smooth, even, dry surface. Avoid textured surfaces including textured paints, wallpapers, stucco, scrub-able paints, etc.
 - f. Make sure your ROODLE will fit in the area. Measure your wall and your ROODLE.
 - g. Use a clean alcohol saturated cloth to remove any dust from your wall surface. You may need a damp cloth or cleaners to remove excessive dirt and dust followed by the alcohol wipe. If so, allow an additional 24 hours to dry as many surfaces absorb moisture like a sponge!
 - h. Spread out your ROODLE on a flat surface, face down. Begin peeling back the liner off from the top down about 2 – 5 inches, and fold under. Position the ROODLE on the wall. Once it is in place, lightly tack down the exposed adhesive. Using a squeegee, smooth down the rest of the exposed adhesive working top down and from the center out. Remove 6 – 10" additional liner and apply with squeegee. Again working from the top down and from the center out.
 - i. Continue in this manner until the entire ROODLE has been applied.
 - j. For wall murals plan the graphic with a 1inch overlap.
 - k. Finish, by re-squeegeeing all the outer edges and overlapping seams to insure good contact with the wall surface

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5) **Removal Instructions:**

- a. Starting in a corner, carefully pry up the vinyl from the wall.
- b. Pull back at a 90° angle to create the least amount of stress on the painted surface underneath the graphic.
- c. Continue peeling at a slow speed, keeping the angle 90° and diagonal to the panel
- d. For best results, remove slowly.



- *Values given are typical for unprocessed product and are not for use as specifications. Processing may change the values.*

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