



Suggested Uses:

The MUV9 is a Matte ultraviolet curable acrylic screen printing ink specifically formulated for multi-purpose use in Point of Purchase printing. This series demonstrates excellent adhesion properties while maintaining a high degree of flexibility for die-cutting. The MUV9 has a very high degree of reactivity for extremely high cure speeds, which works exceptionally well with in-line printers or carousel type presses. **It is the responsibility of the end user to pretest all substrates with Norcote® products prior to use in production.**

Product Features

- Excellent Adhesion and Intercoat Adhesion
 - Perfect for Die-Cutting
 - Low Shrinkage Properties
- (for excellent weatherability on premium vinyl's)

Recommended Substrates:

Pressure sensitive vinyl, print treated polyester PSA films, rigid vinyl, coated and uncoated card stock, polystyrene and ABS. The MUV9 is not recommended for vinyl materials that contain a high degree of plasticizer. Full testing by the end user is recommended to determine suitability of product for a specific substrate and application.

Mesh:

355 or higher mesh counts are recommended for opaque colors where a single (1) lamp system is used. 305 or higher mesh counts are recommended for opaque colors, where two (2) lamp systems are used. Mesh counts should be selected based upon the end user's ability to cure the ink deposit.

Squeegee:

Sharp 70-90 durometer polyurethane blade or multi-durometer blades can be used. For optimal ink lay down, a sharp 80 durometer blade is recommended.

Coverage:

3,200-3,600 square feet per gallon based on a film deposit of .40-.60 mil.

Stencil:

Direct or capillary emulsions that are UV compatible, with a dry micron thicknesses between 7-10µ is recommended. Thicker stencils can be used based upon the ability to cure the increased ink deposit.



Thinner:

The MUV9 Series is supplied in a print ready condition. For reduction of ink viscosity, the use of up to 10% of the Matte Overprint Clear is recommended.

Clean Up:

Most conventional solvent cleaners work well. Alcohol based solutions must be avoided as they break down the emulsion. Norcote recommends Press Wash 110 (flash point 113° F), 140 (flash point 140° F) or NSW-824 (flash point 150° F). These products are used for cleaning ink off screens during on press color changes or before storing the screen. They work well when removing ink from squeegees, flood bars and other equipment. Contact us for packaging options.

Precautions:

Gloves and / or barrier cream is recommended when handling UV inks. Safety glasses are suggested, particularly for areas where ink may be splashed. If skin contact occurs, wash affected area with soap and water (do not use solvent or thinners).

Cure & Adhesion:

One 200 watt per inch lamp at 60 to 80 feet per minute will provide adequate cure with the lowest possible gloss. Increasing to one 300 watt per inch or two 200 watt per inch lamps will increase cure speed; however, will increase the gloss level as well. Adhesion should be at a minimum of 95% from curing unit, with full adhesion within four (4) hours of initial cure. When using coarser screen meshes, cure conditions may need to be adjusted for the increased ink deposit. If a loss of adhesion due to insufficient cure is noticed, the use of 5-10% MUV9 Series Overprint Clear will increase light penetration and improve cure.

Color Range:

Specific colors can be matched at Norcote® against prints, wet ink or PANTONE® numbers.

Standard Colors:

MUV9 155 Matte Rubine Red
MUV9 160 Matte Rhodamine Red
MUV9 205 Matte Reflex Blue
MUV9 230 Matte Blue
MUV9-241 Fire Red
MUV9 485 Matte Warm Red



Color Matching Guide:

MUV9 111 Matte CMG Lemon Yellow
MUV9 114 Matte CMG Orange
MUV9 127 Matte CMG Violet
MUV9 230 Matte CMG Blue
MUV9 325 Matte CMG Green

Whites, Blacks and Clears:

MUV9 012 Matte Overprint Clear
MUV9 301 Matte Opaque Black*
MUV9 311 Matte Opaque White

* Used in Norcote's Color Matching Guide

Ultra Dot Halftone Inks:

The Ultra Dot Halftone inks exhibit a smooth butter like viscosity for superior screen release. This exclusive feature allows for a much lower dot gain and dot height than traditional halftones. Estimated coverage is 2,500-2,800 square feet per gallon based on a film deposit of .40-.60 mil.

Cure & Adhesion:

Ultra Dot Series Halftone's cures well with one 200 watt per inch lamp at belt speeds between 60-80 feet per minute using 355-420 monofilament polyester mesh. Adhesion should be a minimum of 95% from curing unit with final adhesion developing within four (4) hours of initial polymerization. Coarser fabrics can be utilized; however, cure parameters may need to be adjusted for the increased ink film. If a loss of gloss or adhesion due to insufficient cure is noticed, the use of 5-10% Ultra Dot Series HT Base will increase light penetration and improve cure.

Product Identification Density

MUV9 710 Ultra Dot HT Yellow	.90
MUV9 720 Ultra Dot HT Magenta	1.30
MUV9 730 Ultra Dot HT Cyan	1.35
MUV9 740 HT Ultra Dot Black	1.50
MUV9 450 HT Base	N/A

Fluorescent Colors/JZB's:

Aurora Pink (Blue shade)	11 B
Aurora Pink (Yellow shade)	11 Y
Rocket Red	13
Fire Orange	14
Blaze Orange	15
Arc Yellow	16
Saturn Yellow	17
Signal Green	18
Horizon Blue	801
Corona Magenta	21

Metallics:

Silver Powder	038	
Gold Paste	040	• (See Note)
Silver Paste	042	
Red Gold Paste	044	
Copper Paste	046	
Rich Gold Ink	240	
Silver Ink	242	

040 paste should be stored between 18C-35C to avoid solidification. If this occurs, reliquify the paste by placing it in an area with temperatures of 25C-35C.

Additives:

Check the Norcote Additives list for the products compatible with this ink series. The list is available on our website at www.norcote.com or call us at 800-488-9180 to receive a copy.

Storage & Available Warranties

All UV MUV9 Series inks should be stored in tightly closed, black polyethylene containers in an area with the temperature not to exceed 90° F (32.2° C). Avoid freezing. Do not store ink below 32° F. Avoid direct sunlight and indirect white light. Excess ink from print runs should be stored in separate containers to avoid contamination and is not covered under any warranty. When stored under these conditions, Norcote warrants the Products shall be free from defects in material and manufacture for a period of one (1) year from the date of sale for the MUV9 Series standard inks, with no additives, and for a period of one (1) month from the date of sale for any custom color containing Day Glo® JZB or T-Powder. **Norcote will not warrant any custom colors containing metallic pastes or any inks intermixed with competitor products.** Any warranties provided will be limited to the price paid for the actual products used which give rise to the warranty claim.

This Technical Bulletin is intended to be used for informational purposes only, and is in no way intended to create any warranties or other obligations on behalf of Norcote. All warranties, terms and/or conditions for a particular product will be specified on the applicable invoice and are only valid upon the creation of a legally-binding contract.

Testing

Due to the inability of Norcote to anticipate or control the conditions under which the Products and information relating thereto will be used and/or stored, Norcote cannot guarantee the results obtained from using the Products. Any Suggested Uses are merely representative, and because the final product will depend on a number of specific factors, the end user should pretest all substrates with the Products prior to use in production.