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The Marabu logo consists of a red circle above a black square containing a white stylized "M". Below the square is the word "Marabu" in a black, sans-serif font.

PRODUCT DATA SHEET

Product Name: ClearShield Type LL Clear UV Protective Liquid Laminate Coating

Product Type: Clear UV and Chemical Resistant Topcoat

Suggested Use: Topcoat INTERIOR X EXTERIOR X

PRODUCT DESCRIPTION

ClearShield® Type LL is a high-performance, water-based, clear liquid laminate coating system formulated for ultra-violet protection, moisture, abrasion and chemical resistance. It is commonly used to protect ink jet printed substrates. Most ink jet prints have a very thin film thickness of ink, subjecting the print to degradation by ultra-violet light, wind, rain and other abrasive elements. ClearShield Type LL is specifically formulated for use with liquid laminating machines or equipment as well as mop or pad applicators. ClearShield is a low VOC, waterborne topcoat formulated to meet present and future governmental regulations. This easy to use, environmentally friendly product provides a cost-effective, high performance, alternative to traditional solvent-based products.

PHYSICAL PROPERTIES

Viscosity: 19 - 26 seconds Zahn #2

Weight Per Gallon: 8.2 - 8.4 lbs.

Non-Volatile by Volume: 31%

V.O.C.: 1.0lb./gallon (120 g/L)

PH: 8.5 - 9.2

Sheen: Gloss, Semi-Gloss, Satin

Other Information: May be cross-linked if needed for additional chemical resistance and hardness. Use ClearShield CX-100 Cross-Linking Agent.

SUGGESTED APPLICATION DATA

Substrate: Steel, Aluminum, Plastic, Vinyl, most solvent-based ink jet out-put including Eco-solvent, mild solvent and true solvent.

Always test ink and substrate combinations to ensure adhesion and compatibility of clear coat, ink, and substrate.

Application Method: Automated Liquid Lamination Equipment, Spray, Mop or Pad Application, or Brush and Roll Application

Application Viscosity: Use as supplied **Reducer:** Water if needed

Mils Wet: 2.8 **Mils Dry:** 1

Coverage: 481 square feet per gallon at 1 mil dry film (100% efficiency)

CURE SCHEDULE

Air-Dry: X **Temperature:** @80°F **Dust-Free:** 10 minutes
Dry to Handle: 30 minutes **Recoat:** 30 minutes

SPEED OF DRY TIME DEPENDS ON RELATIVE HUMIDITY AND AIR MOVEMENT

SPECIAL CONSIDERATIONS: KEEP FROM FREEZING

MANUFACTURER INFORMATION



Marabu

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Statements and methods described herein are based on the best information practices known to Marabu North America at the time of issue. Procedures are suggestions only and are not to be construed as warranty information or results. It is the user's obligation to determine whether this product is suitable for particular use and specific method of application.