

# Duoprime<sup>®</sup> M1814 – UV melamine primer

Article number: Duoprime M1814

Available in 20 kg cans

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- Instant covalent adhesion to melamine surfaces
- Plug-and-play in UV-coating lines

## ► Product description

Duoprime<sup>®</sup> M1814 is a novel type of UV-primer for flooring and furniture laminates. It uses a covalent adhesion mechanism to melamine instead of surface energy matching which is common in standard acrylate primers. Duoprime<sup>®</sup> M1814 converts inert melamine groups to very reactive acrylate groups using UV-assisted chemistry. The thin primer layer can be applied in standard roller coating equipment, is compatible with standard UV-lamps, and allows a single layer of a very hard acrylate top coat to be chemically attached directly onto the stiff melamine surface.

## ► Application and curing

Duoprime<sup>®</sup> M1814 can be applied in a normal UV-coating line. A two-layer system for flooring is applied in two rollers and standard Hg mercury lamps. Stated UV-doses may vary depending on the customer's UV-oven.

- No sanding is required as long as the laminate surface is clean.
- Apply 0.5-1.5 g/sqm using a 40 Shore roller. The special primer rheology makes it possible to achieve these low application amounts.
- Cure using undoped full spectrum medium pressure Hg lamps, with a total of 400-500 mJ/cm<sup>2</sup> (UVA). Due to oxygen inhibition the primer surface will still be wet.
- Apply at least 8-10 g/sqm of a hard top coat that is compatible with M1814. (Recommendations for compatible top coats can be provided on request)
- Cure using undoped full spectrum medium pressure Hg lamps, with a total dose of 1200-1600 mJ/cm<sup>2</sup>. Excimer curing is also possible to achieve a super matte look.

## ► Cleaning

Most common cleaning solvents, for example butyl acetate.

## ► Content

Solid content 100%, 0% VOC, 0% isocyanates

## ► Storage and handling

Store above 15 °C. Keep away from direct light. When handling and cleaning, use gloves and splash goggles. Note the safety information in our Material Safety Data Sheet, which is separately available. Shelf-life of unopened container: 6 months

## ► Technical sales and support contact

Tommy Haraldsson,

Tel: +46 70 467 22 57

E-mail: [tommy.haraldsson@mercenelabs.com](mailto:tommy.haraldsson@mercenelabs.com)

### MERCENE LABS AB

Teknikringen 38  
114 28 Stockholm  
Sweden

☎ +46 (70) 543 01 65  
✉ [sales@mercenelabs.com](mailto:sales@mercenelabs.com)  
🌐 [www.mercenelabs.com](http://www.mercenelabs.com)