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## Re-coatable UV Pigmented Primer System for MDF & Wood Substrates

### Recoat Compatibility Testing

MIROCURE UV 7844 is an ultraviolet cured undercoat suitable for application by roller coater. It is easily recoated with a wide range of DIY type water based or solvent (oil) based decorative topcoats. Mirotone recommends the application of MIROCURE UV 7806 MDF Primer as the first coat on bare wood and MDF to maximise adhesion to the substrate. MIROCURE UV 7844 may be tinted to a wide range of pastel shades.

It is ideal for use on doors skins, window furnishings (Venetian blinds & shutters) and building products (flat sheet - preprimed).

Mirotone has conducted decorative topcoat adhesion testing with a range of commonly used DIY decorative paints.

18 panels were prepared using the MIROCURE UV Recoat system below:

<b>Substrate</b>	3mm MDF
<b>Sanding</b>	180 grit Sand
<b>Primer 1</b>	<b>MIROCURE UV 7806 #0001 White Primer</b> 15 gsm; 1x Superfici Ga @ 22m/m
<b>Primer 2</b>	<b>MIROCURE UV 7806 #0001 White Primer</b> 15 gsm; 2x Superfici Ga @ 22m/m
<b>Undercoat 1</b>	<b>MIROCURE UV 7844 #0001 White Re-coatable Undercoat</b> 15 gsm, 2xGa +2 x Hg @ 22m/m

The MIROCURE UV primed / undercoated panels were then coated with a range of commonly used decorative paints.

The adhesion of each coating system was tested using AS 1580.408.4 -1993 Crosscut adhesion method, after 7 days at 25°C and after 1 month at 25°C.

All decorative topcoats exhibited excellent adhesion to MIROCURE UV 7844 Undercoat when it was both sanded and unsanded.

The following tables summarise the results of the testing:

<b>Adhesion Test Results</b> (AS 1580.408.4 -1993 Crosscut adhesion)					
Decorative Primers/Sealer	Decorative Topcoat	Surface preparation of UV surface	Adhesion (Air Dry* After 7 Days)	Adhesion (Air Dry* After 1 month)	Rating Description
<b>Water Based Systems</b>					
<b>Wattyl Aqua Prep</b>	<b>Wattyl Aqua Trim White</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	
<b>Taubmans Prep Right Oil Based Undercoat</b>	<b>Bristol Easynamal White</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	
<b>British Paints Prep 4 in 1 Water Based</b>	<b>British Paints H2O Enamel</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	
	<b>British Paints incolour Interior Acrylic White</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	
<b>Dulux 1 Step Acrylic Primer Sealer &amp; Undercoat</b>	<b>Dulux Aquanamel Gloss</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	
<b>Wattyl Aqua Trim White</b>	<b>Wattyl Aqua Trim White</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	
<b>Bristol Easynamal White</b>	<b>Bristol Easynamal White</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	
<b>British Paints H2O Enamel</b>	<b>British Paints H2O Enamel</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	
<b>British Paints incolour Interior Acrylic White</b>	<b>British Paints incolour Interior Acrylic White</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	
<b>Dulux Aquanamel Gloss</b>	<b>Dulux Aquanamel Gloss</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	

<b>Adhesion Test Results (AS 1580.408.4 -1993 Crosscut adhesion)</b>					
<b>Decorative Primers/Sealer</b>	<b>Decorative Topcoat</b>	<b>Surface preparation of UV surface</b>	<b>Adhesion (Air Dry* After 7 Days)</b>	<b>Adhesion (Air Dry* After 1 month)</b>	<b>Rating Description</b>
<b>Oil Based Systems</b>					
<b>Taubmans Prep Right Oil Based Undercoat</b>	<b>Taubmans Ultra Enamel Gloss</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	
	<b>Bristol Supreme Enamel</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	
<b>Wattyl Aqua Prep</b>	<b>Wattyl i.d Ultra Premium High Gloss Enamel</b>	Light sand with 240 grit	5; D	5; D	More than 65% cross-cut area detached (Adhesion failure was between Wattyl Sealer and Wattyl Topcoat. Adhesion to MIROCURE UV 7844 was perfect)
		No Sanding	5; D	5; D	
<b>British Paints 4 in 1 Sealer Primer</b>	<b>British Paints incolour Semi Gloss Enamel</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	
<b>Taubmans Ultra Enamel Gloss</b>	<b>Taubmans Ultra Enamel Gloss</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	
<b>Bristol Supreme Enamel</b>	<b>Bristol Supreme Enamel</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	
<b>Wattyl i.d Ultra Premium High Gloss Enamel</b>	<b>Wattyl i.d Ultra Premium High Gloss Enamel</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	
<b>British Paints incolour Semi Gloss Enamel</b>	<b>British Paints incolour Semi Gloss Enamel</b>	Light sand with 240 grit	0	0	Zero detached (perfect adhesion)
		No Sanding	0	0	

\* Air dry - 25°C

The range of decorative sealers and topcoats listed above are not the only products suitable for recoating the MIROCURE UV 7806 / 7844 system. If using other decorative sealers and topcoats the user must satisfy themselves that the adhesion of the system they are using meets their requirements before completing the whole job.

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