



Body-Liner Ultra Clear HD

Technical Data Sheet (TDS)

Product Description

Body-Liner Ultra Clear HD is a two component highly cross-linked, high performance polyester polyurethane clear coating. Body-Liner Ultra Clear HD is a clear coating designed to give extra protection to solid, metallic, and pearl colors.

Body-Liner Ultra Clear HD features

Exceptional ultraviolet light protection
Outstanding impact resistance

Exceptional abrasion resistance
High gloss

Outstanding chemical resistance

Recommended Uses

Body-Liner Ultra Clear HD is suitable for application on all Body-Liner topcoats requiring extra protection from UV, stone chips, dirt, and debris. This product is intended for professional use.

Mix Ratio

1 part by volume of component A [BLTA0100]

1 part by volume of component B [BLTB0100]

The recommended temperature when mixed is 68-77°F (20-25°C).

Product Characteristics

Gloss	High 90+ GU at 60°
Volume Solids Mixed:(Unreduced)	40 % ± 2%
Pot Life: (77°F (25°C) and 50% RH)	8-10 Hours
VOC Mixed (Unreduced): EPA Method 24: Typical	366 g/l 3.06 lb /gal
Shelf Life:	2 years unopened
Container Sizes:	Gallons

Surface Preparation

Body-Liner Ultra Clear HD can be applied on Body Liner Ultra topcoat colors without sanding during the topcoat window.

Ensure that surfaces to be clear coated are free of flaws, surface contaminants and other surface imperfections. If the Body Liner Ultra topcoat has been allowed to cure longer than 24 hours, sanding will be required to achieve inter-coat adhesion. Sand the topcoat lightly with 400 grit sandpaper or maroon/grey scuff pads.

IMPORTANT

- **Do not sand metallic or pearl colors.**
- **Do not mix Body-Liner Ultra Clear HD with metallic color for final coat.**
- **Do not mix Body-Liner Ultra Clear HD into the final color coat on solid colors.** This may cause matching and repeatability issues.

Application

Body-Liner Ultra Clear HD can be applied using most spray-painting systems.

After application of Body Liner Ultra Topcoat wait for the following times before application of Body-Liner Ultra Clear HD:

Solid Colors – 3-18 hours	Metallic Colors - 6-18 hours
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Apply two wet coats of Body-Liner Ultra Clear HD allowing up to 30 minutes between coats.

The use of Super Catalyst II with Body Liner topcoats will accelerate drying times.



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Spray Viscosity and Gun Setup

Spraying viscosity and thinning will depend on ambient conditions, spray equipment used, and the desired surface finish.

Viscosity Ranges using Ford 4 Viscosity Cup at 68°F (20°C)				
Siphon Feed	Gravity Feed	Pressure Feed	Air Assist Airless	Airless
14-16 seconds	14-16 seconds	14 -17 seconds	14-18 seconds	14-19 seconds

If required, the recommended spraying viscosity is achieved by reducing with one of the following Low VOC Urethane reducers. FTH0021 – Low VOC Topcoat Thinner/ Reducer or FTH0023 – Slow Low VOC Topcoat Thinner/ Reducer

SPRAY GUN SETUP			
Feed Type	Fluid Tip	Application Pressures (Heel of gun)	Fluid Delivery
Siphon Feed	1.6-1.8 mm	40-50 psi	
Gravity Feed	1.3-1.8 mm	30-40 psi	
Pressure Feed	1.0-1.4 mm	50-60 psi	10-14 oz/min
Air Assist Airless	9-13 Thou	1,000-1,800 psi	
Airless	11-13 Thou	1,700-3,000 psi	

Contact your Body Liner Representative if you have any questions.

Dry Times

	68°F (20°C)	86°F (30°C)	104°F (40°C)
Topcoat	2 Hours	1 Hour	30 Minutes
Full Cure	7-14 Days		

Note: Dry Times are subject to ambient conditions (temperature and humidity), good airflow and film build of primer.

For best results surface temperature must be 86°F (30°C) or less before topcoating. The use of Super Catalyst II with Body Liner topcoats will accelerate drying times.

Important Note: Ensure that no more than three coats of paint are applied in a 12-hour shift. This includes primer, mid-coat, topcoats, and clear coat. If more than three coats have been applied wait 10-12 hours to allow for proper solvent evaporation.

For questions about scheduling please contact your Body Liner Representative.

Film Build

Body-Liner Ultra Clear HD has a recommended film build thickness of:

Wet: WFT Unreduced	2.5 – 5.0 mils	64 – 127 microns
Dry: DFT	1.0 – 2.0 mils	25 – 50 microns

Theoretical coverage at 1.0 mil (25 microns) DFT: 640 ft² per gallon at 100% transfer efficiency.

Clean Up

Clean all equipment immediately after use with a High Strength Gun Wash, or low VOC reducers used to adjust viscosity. Follow manufacturer's safety recommendations when using any solvent.

Environmental Conditions

For optimum coating performance product, substrate and ambient temperature should be between 68°F-77°F (20°C-25°C). To prevent condensation during application the surface temperature must be 5°F (5°F) or more above the dew point at all times.

For use outside this range contact your Endura Representative.

Safety Precautions

Please refer to all Safety Data Sheets (SDS) before using this product. SDS sheets can be found on our website at www.TeamBodyliner.com.