



Evolution Clear Technical Data Sheet (TDS)

Product Description

Evolution Clear defines expectations for a polyurethane yacht coating that provides a brilliant gloss and depth of image.

Product features:

- High gloss
- Exceptional UV Resistance
- Superior DOI – Depth of Image
- Outstanding resistance to chemicals and impact
- Can be used over all urethane finish coats

Not for use below the waterline.

Recommended Uses

Evolution Clear is suitable for all Marine Applications where a high-performance polyester polyurethane clear coat is required.

Mix Ratio

**1 part by volume of component A [MTA0300]
1 part by volume of component B [MTB0300]**

Thin as required using Endura Marine Urethane Reducer.

The optimal finish is obtained when RH is 80% or less. For extreme weather conditions (85% RH +) use 30-40% reducer.

Product Characteristics

Gloss: ASTM D2457	High: 90+ GU at 60°
Volume Solids Mixed:(Unreduced)	39.5 % +/- 1%
Volume solids will vary by color	
Pot Life: (77°F (25°C) and 50% RH)	8-10 Hours
Note: This will vary depending on converter used and addition of Marine Urethane Catalyst	
VOC Mixed (Unreduced): EPA Method 24: Typical	450 g/l (3.757 lbs/gal)
VOC content will vary with specific Component B used	
Shelf Life:	2 years unopened
Container Sizes:	Gallon

Surface Preparation

Evolution Clear can be applied over Evolution Yacht Topcoat 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 Evolution Yacht 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.

Note:

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



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Application

Evolution Clear can be applied using most spray-painting systems.
Evolution Clear can be applied in two passes to achieve a high-quality finished appearance
After application of Evolution Yacht Topcoat wait for the following times before application of Evolution Clear:

Solid Colors	Metallic Colors
3-18 Hours	6-18 hours

The use of Marine Urethane Accelerator with Evolution Yacht Topcoat will accelerate drying times.

Be aware when more than three coats of paint are applied in any given 12-hour shift (including primer, topcoats, and clear coat). If more than 3 coats have been applied, wait 10-12 hours is recommended to allow for proper solvent evaporation.

After 24 hours Evolution Clear must be sanded to achieve inter-coat adhesion. Use of accelerators will reduce open window for recoat. Consult your Endura Representative to determine an appropriate recoat window.

Dry Times

Evolution Clear			
	68°F (20°C)	86°F (30°C)	104°F (40°C)
Dust Free	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 the topcoat.

The use of Marine Urethane Accelerator with Evolution Clear will accelerate drying times.

Film Build

Evolution Clear has a recommended film build thickness of:

Wet: WFT	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) average DFT: 633 ft² per gallon at 100% transfer efficiency.

Clean Up

Clean all equipment immediately after use with a High Strength Gun Wash, Endura Marine Epoxy Reducer or Endura Marine Urethane Reducer. 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 please 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.endurapaint.com/marine