



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 [MTB0310] Low VOC B**

The optimal finish is obtained when RH is 80% or less.

Thin as required using Endura EX-2C Slo Thinner [FTH0090] or Medium Topcoat Reducer [FTH0014].

For extreme weather conditions (85% RH +) thin 30-40%.

Other Available B components:

[MTB0300] Marine Evolution HAT B for higher ambient temperatures and humidity.

[MTB0320] Marine Evo Striping B for speed critical multiple striping applications

[MTB0330] Marine Evolution B for general use

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 |
| Pot life is reduced when using Supercatalyst II [ITB0800] | |
| VOC Mixed (Unreduced): EPA Method 24: Using Activator Marine Evo Low VOC Topcoat B [MTB0310] (1:1) | 367 g/l (3.060 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.

- **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 coats 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 SuperCatalyst II 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 SuperCatalyst II 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 epoxy reducers or Endura topcoat thinners/reducers. 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

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