



Technical Data Sheet

Linear Polyurethane Topcoat

82 Series – LP Topcoat Base	470 g/L or 3.9 lbs/gl
82C301 –Spray Converter	591g/L or 4.9 lbs/gl
82C302- Brushing Converter	276 g/L or 2.3 lbs/gl
TR101 –Reducer- Fast	888 g/L or 7.4 lbs/gl
TR103- Spray Reducer- Std	930 g/L or 7.8 lbs/gl
TR265- Brushing Reducer	940 g/L or 7.8 lbs/gl
VOC as applied, 15% red, Spray	551 g/L or 4.6 lb/gl
VOC as applied, 10% red., Brush	459 g/L or 3.8 lb/gl

Features & Uses

Oceanair Performance Coating’s Linear Polyurethane Topcoat delivers that sought-after, long- lasting, extreme high-gloss “concert grand” look with the profound clarity of image that the industry requires. Linear Polyurethane Topcoat’s aliphatic polyester chemistry base provides a resin-rich, chemical resistant platform for its clean, bright colors that are light-fast even in the most demanding of environments and service conditions. This same richness also lends the characteristics of ease of cleaning and maintenance. For application by spray or brush/roller application, in both exterior as well as interior applications, in those areas prone to constant water submersion.

Specification Data

Type: Two Component Linear Aliphatic Polyester Polyurethane

Packaging: 1 U.S. Gallon

Theoretical Coverage - Sq. Feet/Mixed Gallon@ 15% reduction; 590 Sq. Feet (55 sq mt) at 1 mil dry (25 microns).

(Spray Application) 225-250 Sq. Feet (20-23 sq mt) at recommended total dry film thickness.

Recommended Wet Film Thickness: 7-8 mils (175-200 microns) total of 2-3 coats.

Recommended Dry Film Thickness: 2-3 mils (50-75 microns) total of 2-3 coats.

Coverage data given is theoretical, and assumes 100% of the mixed product is applied to a given surface. Actual coverage yield obtained will vary according to equipment choice, application technique, part size and environmental conditions.

Theoretical Coverage - Sq. Feet/Mixed Gallon@ 10% reduction; 700 Sq. Feet (65 sq mt) at 1 mil dry (25 microns).

(Brush Application) 275-275 Sq. Feet (18.5-19.5 sq mt) at recommended total dry film thickness.

Recommended Wet Film Thickness: 4-5 mils (100-125 microns) total of 2-3 coats.

Recommended Dry Film Thickness: 22.53 mils (50-65 microns) total of 2-3 coats.

Drying Schedule

NOTE: The table below indicates approximate minimum and maximum times. Variables in surface temperature, air flow over the surface, direct or indirect sunlight, volume of reducer and wet film build will all effect the actual times during application. Cure cycle minimum advisable temperature is 60°F. The ideal temperature is 77° F.

Temperature for min recoat time	60°F	70°F	77°F	90°F	Max Dry Time
Pot Life- approx.	8 hrs	8 hrs	8 hrs	6 hrs	8 hrs
Dust Free- Spray	90 mins	60 mins	45 mins	30 mins	N/A
Tape Time- Spray	30 hrs	24 hrs	18 hrs	12 hrs	N/A
Full Cure	21 days	18 days	14 days	10 days	N/A
Recoat- Spray	90 mins	60 mins	60-45 mins	30-20 mins	16-24 hrs
Recoat- Brush	12-16 hrs	12-16 hrs	12-16 hrs	12-16 hrs	16-24 hrs
Overcoat with another product Sanding will be required.	24 hrs	24 hrs	18 hrs	12 hrs	96 hrs, Sand & Re-Prime

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Surface Preparation

The surface must be clean, dry and free from dust, grease, oil and other contaminants. For the ultimate in appearance, adhesion and overall performance Oceanair Linear Polyurethane Topcoat must be applied to properly cured and prepared Epoxy Finishing Prime, sanded to P320-P400 grit.

Mixing & Reduction Directions

Spray: Mix by volume one part Oceanair 82-Series Linear Polyurethane Topcoat Base with one part 82C301 Spray Converter to a homogenous mix. Standard conventional spray applications are made by adding 20-35% reducer, using a reducer appropriate for conditions. Overall mix is 1 : 1 : ½-½ by volume.
Recommended Viscosity: #2 Zahn Signature- 16-18 sec.

Brush/Roller: Mix by volume two parts Oceanair 82-Series Linear Polyurethane Topcoat Base with one part 82C302 Brushing Converter to a homogenous mix. Reduce 10-33% with TR265. Oceanair recommends starting at the lower end of the reduction percentage, and adding more as needed for flow-out. Overall all mix is 2 : 1 : ½-1 by volume
Example: 8 oz. 82-Series Base : 4 oz. 82C302 : 1.3-4 oz. TR265

Application Directions

Application Equipment: Only Conventionally Atomized or Airless spray are recommended.
Fluid Nozzle and Needle, Gravity/Siphon- 0.055"-0.071"/1.4-1.8 mm- Conventional or HVLP.
Fluid Nozzle and Needle, Pressure Feed- 0.046"-0.060"/1.2-1.6 mm- Conventional or HVLP.
Pot Pressure: 10-20 PSI- Conventional and HVLP.
Atomization Pressure: 35-60 PSI- Conventional and HVLP.

Spray application: Apply 2 to 3 coats to a wet film thickness 2 - 3 mils per coat. Allow 30 - 60 minutes tack time between each coats. This will yield a dry film thickness 1.5 - 2 mils for a 2 coat application. For a 3 coat application, this will yield a dry film thickness 2 - 3 mils. Maximum recommended film thickness during a spray application is 3 coats totaling 12 mils WFT, or 4 mils DFT.

Brush/Roller application: Apply 2 to 3 coats to a wet film thickness 2 - 3 mils per coat. Each coat must dry to 12 - 16 hrs. Sanding between coats with P320 – P400 is recommended, and will improve final appearance. This will yield a dry film thickness 1.5 - 2 mils for a 2 coat application. For a 3 coat application, this will yield a dry film thickness (DFT) of 50 - 70 microns (2 - 3 mils).

Equipment Cleaning

Acetone, methyl ethyl ketone or PR106 are acceptable.

Environmental, Health and Safety Report

Read SDS and all container labels before opening or using this product. Store containers tightly sealed, upright & locked up, indoors at 0-104°F. Keep away from open flame and sparks. Dispose of contents, containers and any unused mix material in accordance with local/regional/national/international regulations.

HEALTH	2	FLAMMABILITY	3	REACTIVITY	0	PPE	I
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Professional Use Only

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