



75 Series

Buffable Polyurethane Topcoat

DESCRIPTION

Aliphatic polyurethane
 Interior and exterior marine surfaces
 Field and shop application
 Ultra low VOC
 Custom colors

Excellent repairability
 Gloss, semi-gloss, matte
 Metallic, iridescent (pearl) and solid colors
 Superior weathering and durability
 Great chemical resistance

TECHNICAL DATA

% SOLIDS by volume	34% as packaged, 38% as applied
SPRAYABLE VOC (as applied)	max. 420 g/l (less water & exempt compounds)
COMPONENTS	75 Series (resin) 3 parts / 75C301 (cure) 1 part
POT LIFE	3 hours @ 70° F, 21° C
SHELF LIFE	one year (unopened)
REDUCERS	optional: use Urethane TR-105 VOC Exempt Reducer or TR 101 or TR-103.
FLASH POINT	79° F, 26° C
MIX RATIO	3:1 (3 parts 75 Series Base : 1 part 75C301 Converter
RECOMMENDED DRY FILM THICKNESS	1.0 mils to 3.0 mils
THEORETICAL COVERAGE	609 – 203 sq ft at recommended DFT (no loss)

SURFACE PREPARATION

Best results are achieved when 75 Series Topcoat is applied over a two-component primer such as 60W36 white or 60A20 gray Epoxy Finish Primer. 62W32 white is a UV resistant primer for use under solid colors as well as metallic and iridescent colors which are translucent, providing a longer lasting system.

Good painting practices require that before applying coatings a test or mock-up be performed to ensure that adhesion, appearance and color meet the expectations of the owner. Coating performance is proportional to the degree of surface preparation performed prior to priming the substrate. All surfaces must be clean, dry and free of oil, grease, dirt, salt deposits or other contamination. Recommended preparation is as follows:

Steel – Clean the surface of all foreign material. Oceanair’s OC2150 Metal Conditioner may be used to clean and treat steel substrates to eliminate oil, soap film, grease, and flash rusting. Prime with corrosion inhibiting primers, such as Oceanair’s 30Y98 Strontium Chromate fast dry primer. Oceanair’s Finish Primer or High Build Primer must be applied over 30Y98 primer.

Aluminum - Remove all contaminants on new aluminum and abrade using hand tool, power tool to obtain a profile equivalent to 220 grit sandpaper. For corrosion repair, spot blast with beach or silica sand, DO NOT use copper slag or Black Beauty sand. Prime with corrosion inhibiting primers, such as Oceanair’s 30Y98 Strontium Chromate fast dry primer.

Galvanized Steel – Remove all contaminants and check for the presence of chromates or other passivation treatments. Complete removal of chromates or other passivating treatments must be confirmed by testing (ASTM B 201) prior to coating application. 60W36, 60A20 or 62W32 primers can be used over prepared galvanized steel.

Previously Coated Surfaces and Fiberglass - Surface must be clean, dry, and free of any dirt, dust, grease, oil, wax, mildew, disintegrated or chalky materials or other contaminants. Aged coatings should be abraded to achieve an acceptable profile to provide adequate adhesion for the primer and topcoat.

OCEANAIR PERFORMANCE COATINGS

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INSTRUCTIONS – MIX RATIO

Stir or shake each container before mixing together. Mix thoroughly 3 parts 75 Series Acrylic Polyurethane Topcoat with 1 part 75C301 Polyurethane Converter.

Paint may be reduced up to 15% by volume using Oceanair's TR-101 or 103 or 105 Reducers.

For faster cure times, add up to 8 oz of OC1203 Urethane Accelerator per activated gallon of topcoat.

For slower cure times, add 5% by volume of OC1607 Urethane Retarder per activated gallon of topcoat.

APPLICATION FOR "SOLID COLORS" & "METALLIC COLORS"

Environmental Conditions: Air and surface temperature must be above 50° Fahrenheit and no more than 100° Fahrenheit. Surface temperature must be at least 5°F (3°C) above the dew point.

Application: Solid colors may be applied by spray, roller and brush application. Metallic colors should be applied by spray application only. Allow a 20 minute flash time between coats if spray applied. 75 Series should be applied to achieve a recommended dry film thickness between 2.0 to 3.0 mils. For detailed metallic and iridescent application instructions, see Oceanair's Guidance: "Metallic and Iridescent Finishes."

SPRAY GUN SET-UP & PRESSURE

Type	Fluid Tip	Spraying Pressure
Siphon Feed	1.4mm – 1.7mm	40-65-PSI
Gravity Feed	1.3mm – 1.4mm	40-65 PSI
HVLP Siphon	1.6mm – 1.8mm	max. 10 PSI @ the air cap
HVLP Gravity	1.3mm – 1.5mm	max. 10 PSI @ the air cap
Pressure Pot	1.1 mm- 1.3 mm	29 PSI - 58 PSI
Airless Spray*	.011" - .015"	2500 PSI 100 mesh filter

*For solid colors only, not recommended for application of metallics.

DRY TIMES

75 Series Acrylic Polyurethane Topcoat may be air dried or force dried.

Dry times @ 70°F (21°C) and 50% RH

Dust Free	15 minutes
Tack Free	3 hours
Dry Time	24 hours
Recoat	May be recoated with itself at any stage. Sanding will become necessary after 24 hours.
Force Drying:	30-minute flash time / 140° F for 20 min. Allow a 10-min. cool down time

*Temperature Resistance (Dry): Continuous 200°F / Intermittent 250°F

CLEAN UP

Clean all spray equipment immediately after use. Acetone may be used to clean spray equipment.

Oceanair's OC2153 Gun Cleaner is a VOC exempt cleaner and is recommended for cleaning application equipment used to apply the 75 Series system.

Refer to Material Safety Data Sheet for proper handling of products listed in this bulletin.

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PERFORMANCE DATA

TEST METHOD	SYSTEM (7 day, ambient temp. cure)	RESULTS
ASTM D-3359 Adhesion	Cold Rolled Steel Q-Panel Solvent wipe 2150 Metal Conditioner 1.4 mils DFT 75 Series Topcoat	100% retention (no tape off)
ASTM D-4587 QUV Resistance Accelerated Weathering	Cold Rolled Steel Q-Panel Solvent wipe 2150 Metal Conditioner 1.4 mils DFT 75 Series Topcoat	Gloss - 96% retention after 2020 hours delta E color change - 0.27 after 2020 hours No blistering, rusting, checking or cracking
ASTM B-117 Salt Fog	Cold Rolled Steel Q-Panel Solvent wipe 2150 Metal Conditioner 1.4 mils DFT 75 Series Topcoat	No face blistering after 500 hours No face corrosion after 500 hours
ASTM D-2287 Humidity Resistance	Cold Rolled Steel Q-Panel Solvent wipe 2150 Metal Conditioner 1.4 mils DFT 75 Series Topcoat	No blistering, cracking, softening or delamination after 500 hours Gloss - 97% retention after 500 hours
ASTM D-1308 Chemical Resistance 24-hour spot test	Cold Rolled Steel Q-Panel Solvent wipe 2150 Metal Conditioner 1.4 mils DFT 75 Series Topcoat	87 octane unleaded gasoline - rating 5 no effect 10% Sulfuric Acid (Acid Rain) – rating 5 no effect
ASTM D-5402 Chemical Resistance solvent rubs	Cold Rolled Steel Q-Panel Solvent wipe 2150 Metal Conditioner 1.4 mils DFT 75 Series Topcoat	Xylene - 200 double rubs no effect Methyl ethyl ketone (MEK)-200 double rubs no effect 87 octane unleaded gasoline - 200 double rubs no effect.
ASTM D-522 Flexibility	Cold Rolled Steel Q-Panel Solvent wipe 2150 Metal Conditioner 1.4 mils DFT 75 Series Topcoat	180-degree bend, 1/4" mandrel - pass

DISCLAIMER: The technical information and suggestions for use have been compiled for your guidance and usage. Such information is based on Oceanair Performance Coatings experience and research and is believed to be reliable. As OPC has no control over conditions in which the product is used, stored, or otherwise handled, the above information does not constitute a warranty. Buyers must assume responsibility for the suitability of the product for their purposes.

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