

# **Premium Topcoat 501**

Technical Data Sheet: 450-75

## T series

ALEXSEAL® Premium Topcoat 501 (Base Color)

1. Introduction

ALEXSEAL® Premium Topcoat 501 is a two component, polyurethane-based coating, designed for exterior and interior applications. ALEXSEAL® Premium Topcoat 501 has a high gloss wet look which provides superior distinction of image. This product has been specifically developed for the yacht industry.

The product's special characteristics ensure a reduction of cleaning and maintenance, while at the same time preserving the yacht's appearance and value. After curing, ALEXSEAL® Premium Topcoat 501 offers excellent gloss and color stability values, even under extreme climatic conditions. Additionally the material is highly resistant to UV rays, salt water, abrasion and fuel.

2. Range of application

ALEXSEAL® Premium Topcoat 501 is used as a extreme high-gloss topcoat in spray or brush applications. It can be used internally or externally in areas not subject to permanent water immersion.

3. Color

ALEXSEAL® Premium Topcoat 501 is available in standard factory packaged colors and, upon request, in custom colors. Refer to the color card or product overview for part numbers.

4. Coverage

Volume Solids catalyzed without reduction: whites 42 %, colors 38 %.

Note: Coverage rates are figured for base and converter. Reducer is added as percent of total quantity of base & converter.

	m² / liter	m² / gal	sq. ft. / gal	@ DFT in µm (mils)
Theoretical / Brush and Rolling	6	22.7	244	75 ( 3 )
Practical				
Conventional Air Spray Equipment	3.6	13.6	146	75 (3)
HVLP Air Spray Equipment	4.5	17	183	75 (3)

5. Substrate pre-treatment

The substrate must be clean, dry and free from dust, grease, oil, and other contamination. To achieve optimum performance and adhesion ALEXSEAL® Finish Primer 442 is recommended. Final sanding of ALEXSEAL® Finish Primer 442 should be smooth sanded with 320 grit sand paper.

It is recommended that the ALEXSEAL® Topcoat should be applied within 4 days, 2 days if outside after sanding to ensure adhesion.

6.	Trade	names	

Converter Spray	C5051	ALEXSEAL® Topcoat Converter Spray
Converter Brush	C5012	ALEXSEAL® Topcoat Converter Brush
Reducer Superfast	R5090	ALEXSEAL® Topcoat Reducer Superfast (spray)
Reducer Fast	R5070	ALEXSEAL® Topcoat Reducer Fast (spray)
Reducer Med	R5050	ALEXSEAL® Topcoat Reducer Medium (spray)
Reducer Slow	R5030	ALEXSEAL® Topcoat Reducer Slow (spray)
Reducer Brush	R5015	ALEXSEAL® Topcoat Reducer Brush
Accelerator	A5035	ALEXSEAL® Topcoat 501 Accelerator
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7. Mixing ratio Spray:

1 part by volume T.... ALEXSEAL® Premium Topcoat 501 (Base Color)
1 part by volume C5051 ALEXSEAL® Topcoat Converter Spray
30 to 37 % by volume R.... ALEXSEAL® Topcoat Reducer (choose from list above)

Example: 1 :  $1 : \frac{3}{4} = 37 \%$  reduction

Base Material

Brush and Rolling:

2 parts by volume	T	ALEXSEAL® Premium Topcoat 501 (Base Color)
1 part by volume	C5012	ALEXSEAL® Topcoat Converter Brush
16 to 33 % by volume	R5015	ALEXSEAL® Topcoat Reducer Brush
Example: $2:1:\frac{1}{2}$ up to 1	1 = 16.5  up to	33 % reduction

The amount of reducer required may vary depending on the application conditions.

Mixed material must be filtered before application.

#### **Professional Use Only**

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8. Application Viscosity Zahn #2: ≈ 15 - 18 sec, DIN 4 cup 4mm: ≈ 12 - 16 sec Nozzle Size Gravity Gun 1.0 to 1.4 mm (0.040 to 0.050) - Conventional & HVLP

Nozzle Size Siphon Cup 1.6 mm (0.060) - Conventional & HVLP

Fluid Nozzle Size Pressure Pot 1.0 to 1.3 mm (0.040 to 0.050) - Conventional & HVLP Atomizing Pressure 3.0 to 5.0 bar (42 to 70 PSI) - Conventional & HVLP Pot Pressure 0.7 to 1.5 bar (10 to 20 PSI) - Conventional & HVLP

Airmix Equipment 0.18 to 0.28 mm (0.007 to 0.011)

Inlet pressure 3.0 to 5.0 bar (42 to 70 PSI)

Application by Spraying: Apply 2 to 3 coats to a wet film thickness (WFT) of 50 - 75 microns (2 - 3 mils) per coat. Allow

20 - 60 minutes tack up between coats. This will achieve a dry film thickness (DFT) of 30 - 50 microns (1.5 - 2 mils) for a 2 coat application. For a 3 coat application, this will achieve a dry film thickness (DFT) of 50 - 70 microns (2 - 3 mils). Maximum recommended film thickness during a spray application is 3 coats totalling 300 microns (12 mils) WFT, or 100

microns (4 mils) DFT.

Application by Brush/Rolling: Apply 2 to 3 coats to a wet film thickness (WFT) of 50 - 75 microns (2 - 3 mils) per coat. Each

coat should dry to a tape dry stage, 12 - 24 hrs. Sand with 320 - 400 between coats. This will achieve a dry film thickness (DFT) of 30 - 50 microns (1.5 - 2 mils) for a 2 coat application. For a 3 coat application, this will achieve a dry film thickness (DFT) of 50 - 70 microns (2 - 3 mils).

Accelerator: A5035 ALEXSEAL® Topcoat 501 Accelerator is used to reduce the drying time of ALEXSEAL®

Premium Topcoat 501. Per each mixed (catalyzed and reduced) 2 quarts (2 liters) of ALEXSEAL® Premium Topcoat 501, a maximum of 1 cap or 10 ml (1/3 ounce) of A5035 ALEXSEAL® Topcoat 501 Accelerator may be added. Additional quantities of accelerator

reduce pot life, and are not recommended.

9. Pot life and Drying Optimal application environment range - min. 15°C (60°F) 40% RH, up to max. 30°C (85°F) 80% RH

Temperature for minimum recoat time	15°C (60°F)	20°C (68°F)	25°C (77°F)	30°C (85°F)	Max Dry Time
Pot Life - approx.	6 hrs	6 hrs	4 hrs	4 hrs	N/A
Pot Life - with A5035 ALEXSEAL® Topcoat 501 Accelerator	3 hrs	3 hrs	2 hrs	2 hrs	4 hrs
Dust Free	90 min	60 min	45 min	30 min	N/A
Tape Dry - without accelerator	36 hrs	30 hrs	24 hrs	18 hrs	N/A
Tape Dry - with A5035 ALEXSEAL® Topcoat 501 Accelerator	30 hrs	24 hrs	18 hrs	12 hrs	N/A
Fully Cured - without accelerator	21 days	18 days	14 days	10 days	N/A
Recoat after tack up with additional coats of ALEXSEAL® Premium Topcoat 501	90 min	60 min	45 min	30 min	16 hrs
Overcoat with another product. Preparation including sanding is required	24 hrs	24 hrs	18 hrs	12 hrs	N/A

Note: The above chart reflects approximate minimum and maximum time. Surface temperature, air flow, direct or non-direct sunlight, quantity and or choice of reducer, and film thickness will effect actual tack up, recoat, overcoat, and drying times during application. During the drying phase the minimum temperature is 15°C (60°F). Ideal temperature: 25°C (77°F). The minimum application condition should be 3°C (5.4°F) above dew point.

10. Packaging	Т	ALEXSEAL Premium Topcoat 501 (Base Color)	1 QT & 1 Gal
	C5051	ALEXSEAL® Topcoat Converter Spray	1 QT & 1 Gal
	C5012	ALEXSEAL® Topcoat Converter Brush	1 Pt & 1/2 Gal
	R	ALEXSEAL® Topcoat Reducers	1 QT & 1 Gal
	A5035	ALEXSEAL® Topcoat 501 Accelerator	4 Ounces

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