

Premium Topcoat 501

Technical Data Sheet: 450-75

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 an extreme high-gloss topcoat in spray 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 quant base & converter.										
					m² / liter	m² / gal	sq. ft. / gal	@ DFT in um (mils)			
	Theoreti	ical / Brushing a	nd Rolling		6	22.7	244	75(3)			
	Practica				0	22.1	277	70(0)			
	Convort	Practical				12.6	146	75 (2)			
		r Spray Equipm			3.0	17	140	75(3)			
	achieve optimum performance and adhesion ALEXSEAL Finit Final sanding of ALEXSEAL Finish Primer 442 should be sm sand paper. ALEXSEAL Topcoat should be applied within 4 days, 2 days in adhesion. For inside applications talk about extended times wit										
6. Trade names & Packaging	TALEXSEAL Premium Topcoat 501 (Base Color)1 QC5051ALEXSEAL Topcoat Converter Spray1 QC5012ALEXSEAL Topcoat Converter Brush1 PtR5070ALEXSEAL Topcoat Reducer Fast (spray)1 QR5050ALEXSEAL Topcoat Reducer Medium (spray)1 QR5030ALEXSEAL Topcoat Reducer Slow (spray)1 QR5015ALEXSEAL Topcoat Reducer Brush1 QA5018ALEXSEAL Topcoat Reducer Brush1 QA5035ALEXSEAL Topcoat Accelerator4 O						1 QT & 1 0 1 QT & 1 0 1 Pt & ½ 0 1 QT & 1 0 4 Ounces 4 Ounces	Gal Gal Gal Gal Gal Gal Gal			
7. Mix Ratio Spray	1 part by 1 part by 30 to 37.5 Example: The amou Material m	volume volume 5 % by volume 1 : 1 : ³ / ₄ = 37.5 int of reducer re- nust be filtered w	TALEXSEAL Premium Topcoat 501 (Base Color)C5051ALEXSEAL Topcoat Converter SprayRALEXSEAL Topcoat Reducer (choose from list above)% reductionquired may vary depending on the application conditions.ith a decent sized paint filter.								
8. Mix Ratio Brush/Roll	2 parts by 1 part by 16 to 33 % Example:	volume volume 6 by volume 2 : 1 : 1 = 33 %	T C5012 R5015 reduction	ALEXSEAL ALEXSEAL ALEXSEAL	EAL Premium Topcoat 501 (Base Color) EAL Topcoat Converter Brush EAL Topcoat Reducer Brush						

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The amount of reducer required may vary depending on the application conditions. Additional reducer may be added to prior mixed paint pot during the application and will improve flow out consistency and results. Note: A 15-minute induction period after mixing the A5018 Alexseal Topcoat Roll Additive into the mixed base and converter, will improve the performance and results of the A5018 Roll Additive. Add reducer afterwards and roll onto the appropriately prepared surface. Mixed material must be filtered before application. Material must be filtered with a decent sized paint filter 9. Application Viscosity Zahn #2 Signature Cup: ≈ 15 - 17 sec, DIN 4 cup 4mm: ≈ 12 - 16 sec, **ISO 3mm** ≈ 45-55 sec Nozzle Size Gravity Gun 1.0 to 1.4 mm (0.039 to 0.055) - Conventional & HVLP 1.6 mm (0.063) - Conventional & HVLP Nozzle Size Siphon Cup Fluid Nozzle Size Pressure Pot 1.0 to 1.3 mm (0.039 to 0.051) - Conventional & HVLP Atomizing Pressure 3.0 to 5.0 bar (42 to 60 PSI) - Conventional & HVLP 0.7 to 1.5 bar (10 to 20 PSI) - Conventional & HVLP Pot Pressure 0.18 to 0.28 mm (0.007 to 0.011) Airmix Equipment Inlet pressure 3.0 to 5.0 bar (42 to 70 PSI) Application by Spraying: Apply per coat a wet film thickness (WFT) of 50 - 75 microns (2 - 3 mils). 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). Application by Rolling only: A5018 Roll Additive is used to reduce the need to tip off with a brush when roller applying the Topcoat 501. A5018 Roll Additive will let the bubbles in the film pop out before the paint film tacks up. Per each mixed (catalyzed and reduced) 1 quarts (1 liters) of ALEXSEAL Premium Topcoat 501, a maximum of 1 cap or 10 ml (1/3 ounce) of A5018 ALEXSEAL Topcoat 501 A5018 Roll Additive may be added. A5035 ALEXSEAL Topcoat 501 Accelerator is used to reduce the drying time of ALEXSEAL Accelerator: 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.

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10. 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			
Spray Recoat after tack up with additional coats of ALEXSEAL Premium Topcoat 501	90 min	60 min	45 min	30 min	16 hrs			
Brush/Roll Recoat after tack up with additional coats of ALEXSEAL Premium Topcoat 501	12 hrs	8 hrs	6 hrs	6 hrs	24 hrs			
Overcoat with another product. Preparation including sanding is required after max. time	24 hrs	24 hrs	24 hrs	24 hrs	N/A			
Note: The above chart reflects approximate minimum and maximum time. Surface temperature, air flow, direct or non-								

Note: The above chart reflects approximate minimum and maximum time. Surface temperature, air flow, direct or nondirect sunlight, quantity and or choice of reducer, and film thickness will affect 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.

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