

## Flattening Additive for Polyurethane Topcoats

Technical Data Sheet: 499-50 A5023

1. Introduction	ALEXSEAL Flattening Additive is a matting paste for ALEXSEAL Premium Topcoat 501. This product varies the degree of gloss without reducing the mechanical properties of the topcoat. ALEXSEAL Flattening Additive is ideal to use when a lower gloss level is desired to minimize glare and surface defects.						
2. Range of application	ALEXSEAL Flattening Additive may be added to any ALEXSEAL Premium Topcoat 501 color base. This product is designed for spray application. Brush application may result in an uneven flat or semi gloss finish.						
3. Color	Off White paste which turns to the color choice of Premium 501 Topcoat Base when mixed.						
4. Coverage	Same as ALEXSEAL Premium Topcoat 501, see TDS T series for details.						
5. Substrate pre-treatment	Same as for ALEXSEAL Premium Topcoat 501, see TDS T series for details.						
6. Trade name	ALEXSEAL Flattening Additive						
7. Mixing ratio	ALEXSEAL Flattening Additive varies the degree of gloss. For optimum results a tria application is recommend on a small area beforehand.						
	Thoroughly mix ALEXSEAL Premium Topcoat 501 with ALEXSEAL Flattening Additive un one homogeneous mixture is achieved. Add the appropriate quantity of ALEXSEAL Topco Converter and mix thoroughly. Add the appropriate ALEXSEAL Topcoat Reducer and m thoroughly. Strain the mixture through multiple paint strainers, maximum 50 – 100 micror (3 - 5 mils, 170 - 325 mesh) before application.						
<b>Matte Finish</b> Spray:	1 part by volume 1 part by volume 1 part by volume ½ part by volume 16 % (vol) Example: 1: 1: 1: ½ = 16 % I	T A5023 C5051 R reduction	ALEXSEAL Premium Topcoat 5 ALEXSEAL Flattening Additive ALEXSEAL Topcoat Converter ALEXSEAL Topcoat Reducer (C	01 (Base Color) Spray Choose from list)			
<b>Eggshell Finish</b> Spray:	1 part by volume $\frac{3}{4}$ part by volume 1 part by volume $\frac{1}{2}$ part by volume 18 % (vol) Example: 1 : $\frac{3}{4}$ : 1 : $\frac{1}{2}$ = 18	T A5023 C5051 R % reduction	ALEXSEAL Premium Topcoat 5 ALEXSEAL Flattening Additive ALEXSEAL Topcoat Converter ALEXSEAL Topcoat Reducer (C	01 (Base Color) Spray Choose from list)			
<b>Semi Gloss Finish</b> Spray:	1 part by volume $\frac{1}{2}$ part by volume 1 part by volume $\frac{1}{2}$ part by volume 20 % (vol) Example: 1 : $\frac{1}{2}$ : 1 : $\frac{1}{2}$ = 20	T A5023 C5051 R % reduction	ALEXSEAL Premium Topcoat 5 ALEXSEAL Flattening Additive ALEXSEAL Topcoat Converter ALEXSEAL Topcoat Reducer (C	01 (Base Color) Spray Choose from list)			
Notes:	When using non-skid, add non-skid after straining.						
	Flattening additive may be used in ALEXSEAL Premium Topcoat 501 Clear but clouding may occur during some applications. Test trials should be done to determine if the results meet expectations. Application and mixture including reduction, acceleration, film thickness, application technique, and environmental conditions can effect finish outcome and gloss level. When doing multiple applications for the same project, a consistent process is recommended.						
	Matte finishes may be more difficult to clean than glossy finishes. Mixed material must be filtered before application.						
	Profession	al Use Only	,	Page 1 of 2			

The information contained in this data sheet is based on our level of research and development. Revisal by the user with regard to the intended aim is necessary due to the diverse processing and application possibilities. Any liability on part of Mankiewicz for faulty applications and / or improper use is expressly excluded. revision 2018

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8	. Application	Viscosity Nozzle Size Gravity Gun Nozzle Size Siphon Cup Fluid Nozzle Size Pressure Pot Atomizing Pressure Pot Pressure Airmix Equipment	Zahn #2: $\approx$ 15 - 18 sec, DIN 4 cup 4mm: $\approx$ 12 - 16 sec 1.0 to 1.4 mm (0.040 to 0.050) - Conventional & HVLP 1.6 mm (0.060) - Conventional & HVLP 1.0 to 1.3 mm (0.040 to 0.050) - Conventional & HVLP 3.0 to 5.0 bar (42 to 70 PSI) - Conventional & HVLP 0.7 to 1.5 bar (10 to 20 PSI) - Conventional & HVLP 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 cross hatch coats to a wet film thickness (WFT) of 50 - 75 microns (2 - 3 mills per coat. Allow 20 - 60 minutes flash time between coats. This will achieve a dry film thickness (DFT) of 50 - 75 microns (2 - 3 mills) for a 2 coat application. For a 3 coat application, this will achieve a dry film thickness (DFT) of 75 - 112 microns (2 - 4.5 mills) Maximum recommended film thickness during a spray application is 3 coats totalling 22 microns (9 mills) WFT, or 112 microns (4.5 mills) DFT.			
	Accelerator:	A5035 ALEXSEAL Topcoat 501 Premium Topcoat 501. Per ea Premium Topcoat 501, a max Topcoat 501 Accelerator may be	501 Accelerator is used to reduce the drying time of ALEXS each mixed (catalyzed and reduced) 2 quarts of ALEXS aximum of 1 cap or 10 ml $(^{1}/_{3}$ ounce) of A5035 ALEXS $_{2}$ be added.		
		Additional quantities of acc If ALEXSEAL Flattening Additiv recommended for each coat or even paint film application is imp	elerator reduce pot life, and are not recommended. e is used, application by cross hatch or cross spray pattern is r varies direction of spray pattern for each coat or pass. An portant to achieve a uniform finish.		
	Application by Brush:	Friction caused by brushing or r surfaces. In most situations, spr	olling may lead to an uneven finish especially on larger aying is recommended over brushing.		

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 time	15°C (60°F)	20°C (68°F)	25°C (77°F)	30°C (85°F)	Max Time
Pot Life - approx.	8 hrs	8 hrs	6 hrs	4 hrs	N/A
Pot Life - with ALEXSEAL Topcoat 501 Accelerator	4 hrs	4 hrs	3 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 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 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 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.

10. Packaging

A5023 ALEXSEAL<sup>®</sup> Flattening Additive

1 QT & 1 Gallon

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Page 2 of 2

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