Interior Topcoat 578

Technical Data Sheet: 462-44
N Series

1. Introduction

ALEXSEAL Interior Topcoat 578 is a two component, polyurethane based material used where an extremely durable long-lasting coating is required. Good adhesion properties on a variety of substrates, combined with high resistance values make ALEXSEAL Interior Topcoat 578 suitable for many areas of application. The cured film is resistant to abrasion, scratching, solvents, chemicals, synthetic cooling agents and hydraulic oils. This coating is recommended for interior applications only. If objects exposed to extreme weather conditions are not cleaned regularly, UV rays will cause slight gloss and color changes. However, this does not affect the film's protective properties. ALEXSEAL Interior Topcoat 578 has been approved by IMO Resolution MSC.307 (88)-(FTP-Code 2010) as marine paint with low flame-spread characteristics.

2. Range of application

ALEXSEAL Interior Topcoat 578 is used for parts in the engine room and the yacht's interior.

3. Color

ALEXSEAL Interior Topcoat 578 is available in standard factory packaged colors. Refer to the price list for part numbers.

4. Coverage

Solids catalyzed without reduction: 63 %
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	Rec. DFT in µm (mils)
Theoretical / Brush and Roller	8	30.3	326	35 - 45 ()
Practical				
Conventional Air Spray Equipment	5	19	204	35 - 45 ()
HVLP Air Spray Equipment	6	22.7	244	35 - 45 ()
Airless Spray Equipment	8	30.3	326	35 - 45 ()

5. Substrate pre-treatment

The substrate must be clean, dry and free from dust, grease, oil and other contamination. Due to its good adhesion properties ALEXSEAL Interior Topcoat 578 is applied directly onto the appropriately cleaned and pretreated substrate, even if substrates are difficult to coat, e.g., aluminum.
For optimum corrosion protection the use of ALEXSEAL Interior Primer 178 is recommended.

6. Trade names & Packaging

N….	ALEXSEAL Interior Topcoat 578	1 Gal
C6402	ALEXSEAL Interior Topcoat Converter	1 QT
R6068	ALEXSEAL Interior Topcoat Reducer Slow	1 Gal

7. Mixing ratio

Spray:

4 parts by volume	N….	ALEXSEAL Interior Topcoat 578 (Base Color)
1 part by volume	C6402	ALEXSEAL Interior Topcoat Converter
20 to 30 % (vol.)	R6068	ALEXSEAL Interior Topcoat Reducer Slow

Example: 4 : 1 : 1 to 1 $^1/_2$ = 20 - 30 % reduction

Brush and Rolling:

4 parts by volume	N….	ALEXSEAL Interior Topcoat 578 (Base Color)
1 part by volume	C6402	ALEXSEAL Interior Topcoat Converter
10 to 15 % (vol.)	R6068	ALEXSEAL Interior Topcoat Reducer Slow

Example: 4 : 1 : $^1/_2$ to $^3/_4$ = 10 - 15 % reduction

The amount of reducer required may vary depending on the application conditions.
Mixed material must be filtered before application.

Professional Use Only

Rev 02/2025

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8. Application

Viscosity	Zahn #2: ≈ 15 - 18 sec, DIN 4 cup 4mm: ≈ 12 - 18 sec
Nozzle Size Gravity Gun	1.2 mm - 1.6 mm ((0.047 to 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 coats to a wet film thickness (WFT) of 50 - 75 microns (2 - 3 mils) per coat. Allow 20 - 60 minutes flash time between coats. This will achieve a dry film thickness (DFT) of 30 - 50 microns (1.5 - 2 mils) for a 2 coat application. Maximum recommended film thickness during a spray application is 2 coats totalling 180 - 220 microns (7 - 9 mils) WFT, or 60 - 70 microns (2.5 - 3 mils) DFT.

Application by brush/rolling: Apply 2 to 3 coats to a wet film thickness (WFT) of 25 – 37.5 µm per coat. Each coat should dry to a tape dry stage, 12 - 24 hrs. This will achieve a dry film thickness (DFT) of 25 – 37.5 µm for a 2 coat application. For a 3 coat application, this will achieve a dry film thickness (DFT) of 35 - 45 µm.

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.	18 hrs	12 hrs	9 hrs	6 hrs	N/A
Dust Free	40 - 60 min	30 - 45 min	20 - 30 min	15 - 20 min	N/A
Tape Dry	32 hrs	24 hrs	16 hrs	12 hrs	N/A
Fully Cured	14 days	7 days	5 days	3 days	N/A
Recoat after tack up with ALEXSEAL Interior Topcoat (spray application)	40 - 60 min	30 - 45 min	20 - 30 min	15 - 20 min	4 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 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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