



Aeroglaze® Z302 Absorptive Polyurethane, Black

Typical Properties of Aeroglaze Z302 Polyurethane

	Aeroglaze Z302
SOLIDS CONTENT ASTM D 2369-87 modified	
% by weight	34
% by volume	28
DENSITY ASTM D1475-85	
kg/liter	0.93
lb/gallon	7.8
VISCOSITY ASTM D2196-86, Brookfield LVT @ 25°C (77°F)	
cP (thixotropic)	75
GLOSS, 60° %	93
SOLAR ABSORPTION, Gier-Dunkle Integrating Sphere	≥0.95
NORMAL EMISSIVITY, ASTM E408-71 (5-25 μm @ R.T.)	0.90±0.02
OUTGASSING- (ASTM E-595-77)	
% TML	1.39
% CVCM	0.01
FLASH POINT ASTM D 3278-82, Setaflash, Closed Cup	
°C	16.1
°F	61
VOLATILE ORGANIC CONTENT (VOC), ASTM D 3960-89	
g/liter	618
lb/gallon	5.1
THEORETICAL COVERAGE	
m ² /liter/25.4 μm	11.3
m ² /gallon/25.4 μm	42.4
ft ² /gallon/mil	448
COATING FILM DRY WEIGHT	
gm/ft ² /mil	2.68
lbs/ft ² /mil	0.0059

*14 Day Cure at Room Temperature

Basic Uses

Aeroglaze® Z302 absorptive polyurethane is primarily for application to substrates used in space operations. These operations include those where coatings must exhibit low outgassing characteristics while providing high thermal absorptivity properties.

In addition, the mechanical properties required for rigorous durations in space are an integral part of the Aeroglaze Z302 absorptive polyurethane make-up.

Aeroglaze Z302 absorptive polyurethane shows excellent performance on rigid or flexible substrates.

Color

Gloss Black

Packaging

- 1/2 Pint Container (0.24 Liter)
- 1 Quart Container (0.95 Liter)
- 1 Gallon Container (3.8 Liter)

product information

Limitations - *For industrial/commercial use only.* Must be applied by trained personnel only. Not to be used in residential applications. Not for consumer use.

Do not use lacquer thinners or solvents containing alcohol or water as thinners.

Do not apply to damp or wet substrates. Not for immersion service.

Application

Spray

May be applied using siphon, pressure pot or airless spray. For application with siphon or pressure pot, reduce 10% to 25% with Aeroglaze 9958 thinner. Refer to Bulletin DS10-7425.

Brush

If necessary, use a brush for touch-up of small areas. Adding up to 5% Aeroglaze 9958 thinner facilitates application properties.

Apply at 3 to 4 wet (~1.1 dry) mils per coat. Typically, two coats are applied over properly prepared primed surfaces. Ask your Lord representative for the appropriate primer for your application.

Curing Conditions

Aeroglaze Z302 absorptive polyurethane is best applied between 13°C (55°F) and 35°C (95°F). The substrate temperature must be at least 2.8°C (5°F) above the dew point. Aeroglaze coatings cure by reacting with moisture in the air. The speed of cure is dependent on the temperature, relative humidity, and amount of air circulation needed to remove the solvent.

Tack free in 2-3 hours at 25°C (77°F) and 50% relative humidity. Room temperature cure times of 12 hours permit handling; 36-48 hours permit normal usage.

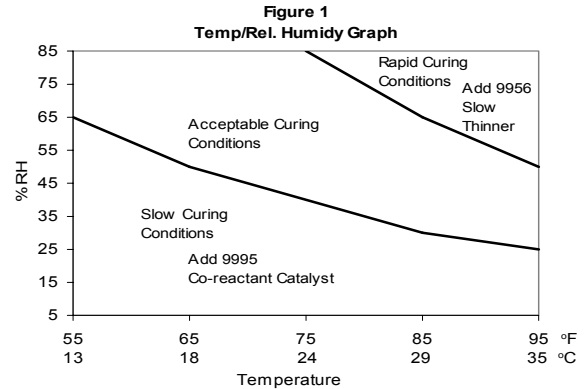
Values stated in this bulletin represent typical values as not all tests are run on each lot of material produced. For formalized product specifications for specific product end uses, contact the Customer Service Department.

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Under the acceptable curing conditions of the Temperature/Relative Humidity Graph (see Figure 1 below), Aeroglaze Z302 absorptive polyurethane will develop its ultimate properties in about 7 days. Lower temperatures and relative humidities retard cure while higher temperatures and relative humidities can cause bubbling.



Recoat Time

Minimum recoat time is three to four hours at 25°C (77°F) with adequate moisture and good air circulation to remove solvent. The maximum recoat time is 24 hours. In high temperature and humidity conditions, recoat within eight hours to prevent intercoat adhesion failure. If the recoat time is exceeded, scuff sand with minimum 80 grit paper before recoating.

Clean-Up

Use Aeroglaze 9958 thinner. Refer to Bulletin DS107425.

Storage/Shelf Life

The shelf life of Aeroglaze Z302 absorptive polyurethane is one (1) year from date of shipment when stored in the original, unopened container. Store inside away from heat, sparks, and open flames.

Cautionary Information

Before using this or any Lord product, refer to the Material Safety Data Sheet (MSDS) and label for safe use and handling instructions.

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For additional information, contact Lord Corporation at: 814/868-3611 ext. 3277, FAX: 814/864-3452 or write: Lord Corporation, 2000 West Grandview Blvd., P.O. Box 10038, Erie, PA 16514-0038.

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