



Aeroglaze® A276 Reflective Polyurethane, Low Outgassing

Typical Properties* of Aeroglaze A276 Polyurethane

	Aeroglaze A276
SOLIDS CONTENT ASTM D 2369-87 modified	
% by weight	56.0
% by volume	40.6
DENSITY ASTM D1475-85	
kg/liter	1.15
lb/gallon	9.57
VISCOSITY ASTM D2196-86 Brookfield LVT @ 25°C (77°F) cP	250
GLOSS, 60° %	93
SOLAR ABSORPTION, Gier-Dunkle Integrating Sphere	0.23
NORMAL EMISSIVITY (ASTM E408-71)	0.90
OUTGASSING* (ASTM E-595-77)	
% TML	0.99
% CVCM	0.08
FLASH POINT ASTM D 3278-82 Seta Flash, Closed Cup	
°C	19.3
°F	67
VOLATILE ORGANIC CONTENT (VOC), ASTM D 3960-87	
lb/gallon	4.3
g/liter	520
THEORETICAL COVERAGE	
m ² /liter/25.4 μm	16.4
m ² /gallon/25.4 μm	61.4
ft ² /gallon/mil	650
GARDNERIMPACT	
Direct: kg-cm	Passes 184
inch-lbs.	Passes 160
Reverse: kg-cm	Passes 184
inch-lbs.	Passes 160
CONICAL MANDREL	
Bend ASTM D 522	Passes 1/8"

*15 Day Cure at Room Temperature, 24 hours at 50°C.

The above data is not a specification but an application guideline.

Basic Uses

Aeroglaze® A276 reflective polyurethane gives a hard, flexible, colorfast, non-chalking surface that is resistant to most acids, alkaline detergents, lubricants, and chemicals.

Color

Gloss white

Packaging

- 1/2 Pint
- Quart
- Gallon

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

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

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

Aeroglaze A276 reflective polyurethane contains aliphatic isocyanate monomer. Spray only in properly ventilated areas with specified respiratory protection.

For most all substrates, primers are required to ensure proper adhesion and performance. Consult your Lord representative for the recommendation on the Aeroglaze primer required for your application.

product information

Application

Spray

Apply 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. For airless spray and rapid curing conditions, dilute up to 10% with Chemglaze® 9956 thinner. Refer to Bulletin DS 10-7067.

Brush

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

Coverage (estimated)

300-400 square feet per gallon for 1.5-2.0 dry mils, depending on porosity, roughness of surface, and product color. Note: Film thicknesses above 5 wet mils can cause bubbling and sagging.

Curing Conditions

Aeroglaze A276 reflective 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 air temperature, relative humidity, and amount of air circulation needed to remove the solvent.

Under the acceptable curing conditions, Aeroglaze A276 reflective polyurethane will develop its ultimate properties in about 14 days. Refer to the Temperature/Relative Humidity Graph (see Figure 1). Lower temperatures and relative humidities retard cure while higher temperatures and relative humidities may cause bubbling.

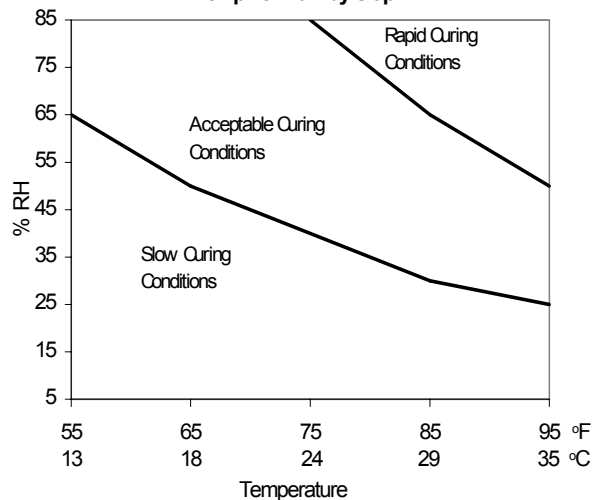
Values stated in this bulletin represent typical values as not all tests are run on each lot of material produced. For formalized product specifications for specific product end uses, contact the Customer Service Department.

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Figure 1
Temp/Rel. Humidity Graph



Recoat Time

The recoat time of Aeroglaze A276 reflective polyurethane is 4 hours minimum and 24 hours maximum. This is dependent on temperature and humidity. High temperature and humidity promotes fast cure while low temperature and humidity slows down the cure.

In high temperature and high humidity conditions, recoat within eight (8) hours to prevent intercoat adhesion failure. If the recoat time is exceeded, scuff sand with fine sandpaper before recoating.

Clean-Up

Use Aeroglaze 9958 thinner. Refer to Bulletin DS107425.

Storage/Shelf Life

The shelf life of Aeroglaze A276 reflective polyurethane is one (1) year from date of shipment when stored in the original, unopened container. Store indoors 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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