

Selection & Specification Data

Generic Type : Two component epoxy-amine.

General Properties : An advanced, self-leveling epoxy polymer that produces a smooth high gloss floor protection system with optimal housekeeping features. It provides excellent adhesion to properly prepared surfaces and offers cost-effective means for protecting floors from moderate truck traffic and chemical spills.

- Provides a Very Smooth, Aesthetic Surface
- Easily Cleaned
- Long Wearing - Exhibits Excellent Abrasion Resistance
- Very Low Solvent Content
- Very Low Odor

Recommended uses : Starglaze 2001 is typically used to enhance, beautify and protect floors. It is recommended where trowel-done floor toppings are not needed but conventional coatings are inadequate in appearance and durability. Starglaze 2001 is used to smooth horizontal surfaces where decontamination, appearance, chemical and abrasion resistances are of prime consideration. Certain capabilities are enhanced through the use of select Carboline fillers. Consult Carboline Technical Service for specific recommendations.

Not Recommended for : Applications in direct sunlight (may discolor), areas of heavy fork-lift traffic, as a thick film surfacing compound (accessory products are used for this). Not recommended for immersion service or where hydrostatic pressure may be a factor.

TYPICAL CHEMICAL RESISTANCE GUIDE

Exposure	Splash & Spillage	Fumes
Acids	Very Good	Excellent
Alkalies	Excellent	Excellent
Solvents	Very Good	Excellent
Salt	Excellent	Excellent
Water	Excellent	Excellent

Dry Temp. Resistance : (Non-immersion)

Continuous:	200°F (93°C)
Non-Continuous:	250°F (121°C)

Substrates : Apply over properly prepared and primed concrete as recommended. Can be applied over properly prepared catalyzed epoxies or phenolics. A primer or a surfacer is required depending on concrete condition. Consult Carboline Technical Service for specific recommendations.

Compatibility with Other Coatings : May be used over most catalyzed epoxies and phenolics. Before applying Starglaze 2001 over existing, aged coatings, a test patch is recommended to verify compatibility and adhesion of the system. May be topcoated with the recommended other coatings to enhance appearance and wear resistance.

Specification Data

Theoretical Solids Content of Mixed Material :

Starglaze 2001 By Volume: 96% ± 2

Volatile Organic Content : (The following are nominal values)

As supplied : 45 g/l

Recommended Dry Film Thickness Per Coat :

30~80 mils (750~2000µm) for general use. For applications above 100 mils(2500µm) total thickness, consult Carboline.

Theoretical Coverage Per Mixed Gallon :

38.5 sq. ft. at 40 mils (0.96 sq. m/l at 1000 µm)

* Mixing and application will vary and must be taken into consideration when estimating job requirements.

Storage Conditions : Store Indoors

Temperature : 40~110°F (4~43°C)

Humidity : 0~95%

* Bring products to a temperature between 60°F(15°C) and 90°F(32°C) prior to application.

Shelf Life : 12 months minimum stored at 75°F(24°C).

Colors : Available in White, Gray, Red(0516), Green, Blue and Tan. Consult your local Carboline Sales Representative or Carboline Customer Service Representative for availability. For USDA applications, request lead and chromate free colors.

Gloss : High gloss (unfilled), Satin finish (utilizing Filler #42).

Flash Point : (Pensky-Martens Closed Cup)

Starglaze 2001 Part A	198°F(92°C)
Starglaze 2001 Part B	200°F(93°C)
Thinner #15	81°F(27°C)

October 2016 replaces July 2013

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Carboline® and Carboguard® are registered trademarks of Carboline Company.

APPLICATION INSTRUCTIONS

Surface Preparations : Chemical cleaning of concrete may be necessary prior to blast cleaning, roto peening, or high pressure water blasting to remove surface contaminants such as oil, grease and dirt. Solvents should not be used for this purpose. If contamination is extensive, steam cleaning may be necessary. Concrete must be clean and dry before coating.

Smooth surfaces must be abrasive blasted or acid etched to open voids, remove laitance and obtain a surface similar to medium grit sandpaper prior to topcoating. Acid etched concrete must be properly neutralized, rinsed and dried. Vacuum to remove dust. Vacuum blasting is the preferred method of surface preparation.

Do not use on previously coated concrete or concrete treated with hardening solutions unless a test patch indicate satisfactory adhesion. Do not apply unless concrete has cured at least 28 days at 70°F (21°C) and 50% relative humidity or equivalent cure.

Priming : A Primer/sealer is necessary to minimize bubbling of Starglaze 2001. The product or products used for this purpose depends on the condition of the substrate after surface preparation. For specific product and application information, complete a Carboline Floor Audit Checklist and submit to Carboline Technical Service.

Mixing : Slowly power mix the Part A, then add Part B. Keep the mixing blades at slow speed and down in the product to minimize whipping air into the material. Mix to blend thoroughly. Do not mix partial kits. Material is highly reactive. Mix no more than will be used within potlife. See potlife section for cautions.

Mixing Ratio (by volume) = 12.85 : 3.15 (Part A to Part B)

* When used, the Special Fillers #41 and #42 must be added to the Part A component prior to mixing the Part A and Part B components together.

* Special Fillers are optional.

Thinning : Thinning is not normally required but may be thinned up to 3% with Thinner #15 or Thinner #25. Consult Carboline Technical Service for specific thinning recommendations.

Use of thinners other than those supplied or approved by Carboline may adversely affect product performance and will void product warranty, whether express or implied.

Pot Life : 25 minutes at 75°F (24°C) and less at higher temperatures. Immediately use material to obtain longest working time.

Caution: This product is exothermic at the end of its pot life. Any unused quantities will become extremely hot and will generate smoke and fumes. The material begins to thicken at the end of its pot life which is an indication of exothermic. Immediately spread out on appropriate surface or add sand or other suitable heat sink to the unused material to reduce the severity of the exothermic. Take appropriate precautions against breathing fumes. See the material safety data sheet for this product.

Application Conditions

Condition	Material	Surfaces	Ambient	Humidity
Normal	70~85°F (21~26°C)	70~80°F (21~26°C)	70~90°F (21~32°C)	0~80%
Minimum	60°F (15°C)	60°F (15°C)	60°F (15°C)	0%
Maximum	90°F (32°C)	100°F (37°C)	100°F (37°C)	85%

Do not apply when surface temperature is less than 5°F (or 3°C) above the dew point.

Special application techniques may be required above or below normal conditions.

Spray : The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Conventional : Bottom Feed Pressure Pot equipped with dual regulators, 1/4" I.D. minimum material hose, 1/2" I.D. fluid tip and appropriate air cap.

Airless :

Pump Ratio	:	30 : 1 (min.)
GPM Output	:	3.0 (min.)
Material Hose	:	1/2" I.D.(min.)
Tip Size	:	0.025~0.030"
Output PSI	:	2100~2300
Filter Size	:	N/A

* Teflon packings are recommended and are available from pump manufacturer.

Non-Skid Applications : When a skid resistant surface is required, use Filler #3 with Starglaze 2001. When used, first apply a 10-14 mil wet film of Starglaze 2001. Then, broadcast the Filler #3 evenly on the surface of the wet film. After broadcasting the Filler #3, use a mohair roller in order to wet the particles.

Brush or Roller : Use medium bristle brush or good napless phenolic roller. Avoid excessive rebrushing and rerolling.

Other Tools : Notched squeegees, screed bars, spike rollers, spike shoes.

Drying Times : These times are at 30 mils (760µm dry film thickness.

Between coats	:	16 hours at 75°F (24°C)
Light Foot Traffic	:	24 hours at 75°F (24°C)
Final Cure	:	7 days at 75°F (24°C)

Clean Up : Use Carboline Thinner #2. or Thinner #15

Caution : Read and follow all caution statements on This product data sheet and on the material safety Data sheets for this product.

October 2016 replaces July 2013

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Carboline® and Carboguard® are registered trademarks of Carboline Company.