



ELASTOCRETE

LIMITLESS CONCRETE

WB-P53 CLEAR

Product Information

Category: Sealer

Product No. 2009 series

- 24oz & 1.5 gal kit

Clear available in Gloss, Satin, Matte

Description and Use:

A high solids, high performance water based polyurethane that provides high chemical resistance and great resistance against hot tire staining. This unique two component water based polyurethane provides performance equal to conventional solvent urethanes without the odors or associated health problems. With excellent UV protection the WB-P53 is a great choice for interior and exterior flooring where gloss retention is desired.

WB-P53 is designed to be used as a finish sealer for ElastoCrete This high performance polyurethane has be designed to be used for Residential and Commercial - Interior and Exterior flooring. It is an ideal coating for projects that require a high gloss, ease of cleaning, high wear resistance and all with a low odor. WB-P53 may also be used in high traffic; high wear areas such as an airplane hangar, automotive repair facility and retail stores.

Its significant characteristics include:

- ✓ Little to No Odor
- ✓ High Wear and Chemical Resistance
- ✓ Great UV resistance
- ✓ Convenient 2:1 Mix; A:B=2:1

Finish:

High Gloss Clear Finish

Satin Finish Available for custom order

Coverage:

500-700 sq. ft. per gallon on semi-smooth to smooth surfaces. Not recommended on rough textured surfaces.

Packaging:

1 1/2 gallon kits: (1 gallon part A to 1/2 gallon part B)

24 oz kits: (16 oz part A to 8 oz part B)

Inspection:

Concrete must be clean, dry, and free of grease, paint, oil, dust, curing agents, or any foreign material that will prevent proper adhesion. The concrete should be porous and be able to absorb water. A minimum of 14 days cured is required on all concrete. Relative humidity in the concrete floor slab should be below 80% (per ASTM F-2170).

Before starting flooring work, test existing concrete slab to make sure there is no efflorescence or high levels of alkalinity. Alkalinity refers to a high pH reading which means the floor is not neutral. A high alkaline environment can cause salts to creep up through the cement called efflorescence. These salts have a tendency to prevent or destroy the bonding of coatings to the concrete. The most common form of testing is the use of a wide-range pH paper or tape. Make sure the floors pH reading ranges between 5-9 to ensure adhesion. The testing of concrete for alkalinity can show the amount of alkalinity only at the time the test is ran, and cannot be used to predict long-term conditions.

Calcium chloride tests should be conducted to determine if the concrete is sufficiently dry for an epoxy flooring installation. The calcium chloride tests should be conducted in accordance with the latest edition of ASTM F 1869, Standard Test Method for Measuring Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride. When running a calcium chloride test, it is important to remove any grease, oil, curing agents, etc. so accurate readings can be obtained.

Failing to adhere to these strict guidelines can result in product delamination, discoloration, blistering, or all together failure of the coating system. Testing is the responsibility of the Certified Elastocrete bears no responsibility for failures due to any of the above conditions.

Surface Preparation:

Concrete surfaces shall be bead blasted or diamond grinded to remove all surface contaminants and laitance. The concrete should be at least 2500 psi and have an ICRI concrete surface profile within 3-5. After initial preparation has occurred, inspect the concrete for imperfections and treat as necessary.

For surface preparation recommendations consult the Technical Service Department. All expansion joints should be honored. Cracks should be chased with a diamond crack chaser (approximately 1/4" x 1/4"), swept or blown clean.

Mixing:

Premix parts A and B before mixing together

Mix 2 parts A with 1 part B (by volume) together for 3 to 4 minutes with a slow speed drill mixer. Be sure to scrape sides and bottom during mixing. Material cannot be properly mixed by hand even in small batches.

WB-P53 has a 3 hour pot life at 77 degrees F and low humidity.

Thinning:

May be thinned with 10% water to aid penetration. When used directly over concrete it is recommended to thin with water. A and B parts must be properly mixed before adding any water.

Application:

WB-P53 needs to be applied at a minimum coverage of 200 sq. ft. per gallon to prevent bubbles from curing in the finish coat. The product can be applied using a brush, roller or airless sprayer. DO NOT ALLOW TO ACCUMULATE IN JOINTS, GROUTLINES OR LOW AREAS. A second coat may be applied within 24 hours

Drying Time:

You may re-coat as soon as the surface is dry to touch or in about (but not later than 24 hours). If the 24 hour re-coat period has passed then the surface must be de glossed with a black janitorial pad or fine sanding screen to ensure a good bond. Cooler temperatures and higher humidity will increase drying time.

Light foot traffic may be permitted in 24 hours, moving furniture back in 72 hours, heavy- traffic in 7 days.

All times are based on average temperature of 70 degrees and 50% humidity. Cooler temperatures and higher humidity will increase drying time.

Handling Precautions:

Refer to MSDS before using.

Limitations:

- Do not apply at any temperature below 50° F or above 95°F.
- Concrete must be cured for a minimum of 28 days
- Concrete should be a minimum of 2500 psi.
- Material must be mixed mechanically for proper performance
- Product must be applied at a rate of 200 sq. ft. per gallon
- Not suitable for rough textures
- Do not apply if humidity if over 90%. The moisture will not escape from the sealer resulting in an improper cure.

Clean Up:

Acetone will help remove un-cured material off tools, but once it is cured it will need to be removed mechanically.

Technical Data:

<u>Physical Properties</u>	
Mixing Ratio, by Volume	2-1
Solids Content, by Weight	53%
Solids Content, by Volume	66%
V.O.C.	50 grams/liter
Pot Life (77 degrees, 1 quart mass)	3 hours
Pot Life (95 degrees, 1 quart mass)	50 minutes
Pot Life is reduced by increasing temperature and/or mass.	
Dry Times (77 degrees, 30% R.H.)	
Dry to Touch	6 hours
Recoat	12 hours
Light Traffic	18 hours
Full Cure	7 days
Higher temperature and lower humidity will accelerate cure times	
Lower temperature and higher humidity will lengthen cure times	
<u>Performance Properties</u>	
Gloss, 60° (clear material)	90
Pendulum hardness, sec (ASTM D-4336)	175
Tabor Abrasion – 1000gm load 1000 cycles, CS 17 wheel	39 mg loss
<u>Chemical and Stain Resistance (ASTM D-1308 24 hour Immersion)</u>	
Urine	no effect
Blood	no effect
Betadine	no effect
Whiskey	no effect
Black Ink	no effect
Brake Fluid	no effect
Gasoline	no effect
Skydrol	no effect
Xylene	no effect
MEK	no effect
50% Sodium Hydroxide	no effect
10% Hydrochloric Acid	no effect
10 Sulphuric Acid	no effect
10% Acetic Acid	no effect

Wear Personal Protective Equipment
 Read MSDS before using this product
 DOT/Flash Point – Non-flammable Liquid Classification, not regulated

<p>Manufacturer/Distributor Warranty: As neither the manufacturer nor the distributor has control over the actual installation of this product, the manufacturer and distributor disclaim any and all warranties expressed or implied regarding color shade, appearance, and product performance at and after opening product containers. Manufacturer and distributor recommendations and suggestions are made without guarantee. Conditions of installer's and consumer's use of this product are beyond the control of manufacturer and distributor. Manufacturer and distributor disclaim any liability incurred in connection with the use of this product or information contained herein.</p>
