



WB-P53 3.1 SEALER

Product Information

Category: Sealer

Product No. 2009 series

1-gal and 20oz kits

Available in Gloss, Matte

Description and Use:

A high solids, high performance waterbased urethane that rivals the performance of polyaspartics without the odor, health, or environmental issues. P53 3.1 is VOC compliant with exceptional UV and abrasion resistance. Both the gloss and matte versions can be applied directly to overlays and concrete. Both provide great resistance against hot tire staining.

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 3.1 may also be used in high traffic, high wear areas such as an airplane hangar, automotive repair facility and retail stores.

This engineered product used in the following applications:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Alternative Flooring | <input checked="" type="checkbox"/> 3D |
| <input checked="" type="checkbox"/> Interior | <input checked="" type="checkbox"/> Epoxy Flooring |
| <input checked="" type="checkbox"/> Exterior | <input checked="" type="checkbox"/> Shower FX |
| <input checked="" type="checkbox"/> Countertop | <input checked="" type="checkbox"/> Outdoor Islands |

Its significant characteristics include:

- ✓ Little to No Odor
- ✓ High Wear and Great Chemical Resistance
- ✓ Great UV resistance
- ✓ Convenient pre-measured 3:1 kit mix
- ✓ Maximum roll out and coverage reduces cost per square foot.

Finish:

High Gloss Finish

Matte Finish

(50-50 Split of High and Matte can gain satin finish.)

Coverage:

300-350 sq. ft. per gallon on semi-smooth to smooth surfaces. Must be rolled well into rough surfaces and textures to prevent puddling that will "white out" upon drying.

Packaging:

1-gallon kits: (1 gallon kit pre-measured with 3 parts A to 1 part B) and 20 oz kits (15 oz Part A to 5 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 Installer as Granicrete 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.

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 individually with a slow speed drill mixer (300 rpm) before mixing together

Mix 3 parts A with 1 part B (by volume) together for 2-3 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 3.1 has a 2-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 together before adding any water.

Application:

WB-P53 3.1 needs to be applied at a minimum coverage of 300 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 as the material will cure "white" and will require sanding and chemical removal for reseal. A second coat may be applied within 10 hours.

Drying Time:

You may re-coat as soon as the surface is dry to touch (10 hours 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 18-24 hours, moving furniture back in 48 hours, heavy- traffic in 5-7 days.

All times are based on average temperature of 70 degrees and 50% humidity. Higher temperatures and lower humidity will decrease both working and drying times.

Handling Precautions:

Refer to SDS 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 at least 300 sq. ft. per gallon

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	3-1
Solids Content, by Volume	53%
V.O.C.	50 grams/liter
Pot Life (77 degrees, 1 quart mass)	2 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	4-6 hours
Recoat	10 hours
Light Traffic	18-24 hours
Full Cure	5-7 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)	180
Tabor Abrasion – 1000gm load 1000 cycles, CS17 wheel	32 mg loss

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

Manufacturer/Distributor Warranty: The manufacturer has no control over the actual installation of this product, the manufacturer disclaims any and all warranties expressed or implied regarding color shade, appearance, and product performance at and after opening product containers. Manufacturer recommendations and suggestions are made without guarantee. Conditions of installer's and consumer's use of this product are beyond the control of manufacturer. Manufacturer disclaims any liability incurred in connection with the use of this product or information contained herein.