

Waterborne Aliphatic Polyester Polyurethane Sealer

DESCRIPTION

SUPERGLAZE™ WBU is a clear, water based formulation of 100% non-yellowing urethane polymers designed specifically for heavy use areas that require not only a durable initial high gloss, but superior abrasion characteristics, and UV resistance as well. Originally formulated for use on gymnasium and wood floors, it has been slightly modified for use on primed concrete applications as well as maintaining its usability and durability on wood floors .

SUPERGLAZE™ WBU can be applied as a single component material, resulting in a good durable finish, suitable for most residential settings. However, for dramatically improved overall performance, durability, chemical resistance and abrasion resistance characteristics addition of **U-43 ACRYLIC CROSS-LINKER** is highly recommended .

WHERE TO USE

- Any pre-primed concrete surface
- Ideal for residential or commercial acid stain applications and acrylic overlays.
- Any area requiring high gloss & durability.

ADVANTAGES

- Excellent Working Time
- Single or dual component
- Excellent moisture resistance
- Quick drying for fast turnarounds or reseals

TYPICAL DATA FOR SUPERGLAZE™ WBU

PHYSICAL PROPERTIES -

COLOR:	Clear, slightly cloudy
VISCOSITY:	20-50cps.
SOLIDS:	28% (by weight)
VOC:	279 g/l
WT/GAL:	8.65
pH:	7.0 ± 8.5

POTLIFE:

Single Component:	Indefinite if sealed
Dual Component:	24 hours or less*

* Unlike many two component urethane products, shelf life is not affected by addition of U-43 Acrylic Cross-Linker. If application time exceeds 24 hours since addition, simply add cross-linker again for cross-linked properties.

CONSISTENCY:	Slightly thicker than water
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TACK-FREE TIME:

Substrate Temperature	73°F	90°F*
	15 -20 min	<15 min

*Not recommended; see application instructions

TENSILE PROPERTIES (ASTM D 412):

Tensile Strength	6,600 psi *
Elongation at Break	225 %

* Instron tester; Samples were pulled at 2" per minute

GLOSS, 60%	91
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HARDNESS (ASTM- D2134):

Sward 1 wk	35
Taber	20 mg loss (CS-17 Wheel)

SHELF LIFE:	1 year in original unopened containers. Cartridges 1 year.
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PACKAGING:	5 Gallon kits & Drums on Request
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General Requirements And Recommendations

Water borne materials are much more susceptible to premature drying if applied in direct heat, or in the presence of extreme air movement. For this reason, keep material in a cool area before and during application.

Also, if application temperatures exceed 75-80°F, it is recommended that the substrate temperature be reduced by a light misting of water and allowed to dry completely, or rescheduled for the following morning when ambient temperatures are lower. (Bare concrete applications only; Acrylic overlays are permissible at higher temperatures for the first coat only.) Failure to observe temperature requirements can result in premature drying evidenced by visible roller marks and/or bubbling.

Moisture Testing:

SuperGlaze™ WBU is a non-breathable material, and can delaminate from excessive hydrostatic pressure, or moisture vapor transmission. Prior to initial preparation, it is recommended that several squares of plastic sheeting (minimum 12"X12", 24"X24" is recommended) be taped to the surface for a minimum of 24 hours, 48 hours preferably. Make sure the seal is tight, with no holes or breaks in the tape.

After this time, remove plastic sheeting and inspect the underside for the presence of moisture droplets. Also observe the overall color of the concrete substrate. If moisture droplets are present, or the substrate has darkened significantly, contact Technical Support for directions to obtain and perform further moisture testing prior to any step of the application, including acid staining, or surface preparation.

Bare Concrete Applications

Like all urethane materials, **SuperGlaze™ WBU is not designed for direct application to concrete.** If applied to a concrete surface, surface must be primed with another product such as SuperSeal™ 20WB, or a 100% solids epoxy product such as Shield 50™/UV Shield™. The substrate must be clean and sound and free from any and all debris. For colored thin film applications, etch the surface by applying a mixture of 1 gallon muriatic acid to 4 gallons water (4:1 Ratio); for extremely dense or "tight" power-troweled surfaces, adjust ratio to 3:1 for a stronger etching of the surface.

Mix material in a plastic container and pour directly on surface; move around with a medium bristle broom. A good reaction is visible by a "fizzing" action upon contact with the concrete. When this fizzing is no longer visible, subsequent mixes can be made and applied as necessary until the entire surface has been etched. After applying, mix a 10:1 ratio of water and clear ammonia to neutralize any remaining acid.

CAUTION

ALWAYS ADD ACID TO WATER,
NOT WATER TO ACID TO
PREVENT SPLASHING OF ACID
ONTO YOU. POUR ACID
SLOWLY AND CAREFULLY

Surface must be washed thoroughly with high pressure water to remove residue. Use a pressure washer with a minimum of 3000 psi @ 3.0 gpm. Allow the surface to dry completely, overnight if possible. Surface must be absolutely dry prior to application. If necessary, evacuate larger puddles using a leaf blower.

ACID STAIN APPLICATIONS:

Apply acid stain and clean floor as instructed. Ensure floor is completely dry and completely void of any acid residue.

MATERIAL MIXING AND APPLICATION

SuperGlaze™ WBU can be applied as a single or dual component material. However, unlike most two-component materials, addition of the acrylic cross-linker does not shorten its pot-life, but does dramatically improve the properties of the material. For use as a single component, simply use the material straight from the container. Follow the application recommendations below.

For use as a two-component material, add 1.5-2.0% by volume of the **Q-43 ACRYLIC CROSS-LINKER** and mix slowly for 2-3 minutes. **Do not mix at high speed TO AVOID entraining large amounts of bubbles that can affect the overall finish.**

NOTE:

IF MORE THAN 24 HOURS HAS PASSED SINCE THE CROSS-LINKER WAS ADDED, THE REMAINING MATERIALS IS STILL PERFECTLY USABLE. SIMPLY ADD THE CORRECT PERCENTAGE BASED ON YOUR NEW VOLUME. THIS WILL INITIATE THE CROSS-LINKING PROCESS AGAIN.

For best results, apply SuperGlaze™ WBU with a high quality, lint-free 3/8" nap roller. Apply at a rate of 350-400 ft² per gallon. For best results apply generously to a small area and roll to even out. Do not roll randomly in many directions, but methodically and evenly ending with the final roller stroke in the same direction wither towards you or away from you. Do not excessively overwork the material, and once an area is evenly covered, leave it alone. As all water borne products, SuperGlaze™ WBU will dry fairly quickly. For this reason, do not roll an area that has been applied more than 10 minutes or so. To do so can result in roller marks or bubbles that will not dissipate upon drying.

Seal container tightly after use.