

SHIELD

DECK WATERPROOFING & COLOR SEALER

TECHNICAL DATA SHEET

1.0

PRODUCT DESCRIPTION

Shield Deck Waterproofing & Color Sealer is a multi-functional surface system engineered to act as a waterproofing barrier, bond coat, underlayment, and micro-topping—delivering reliable protection across a wide range of decking and surface applications.

Designed for exceptional adhesion and strength, it bonds securely to most substrates to create a uniform, crack-resistant base that withstands movement, thermal expansion, and exposure to harsh chemicals and corrosive environments. With 10 standard color options and custom color matching available, the system pairs performance with design flexibility, while its job-site-ready mix ratio allows for efficient preparation and seamless on-site installation.

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APPLICATION

- Concrete decks and patios
- Walkways and driveways
- Parking structures and garages
- AND MORE!

APPLICATION METHODS

Base Resin:

A. THICKNESS:

Apply SHIELD Base 1/16" thick for a semi-waterproofing or 1/8 "thick to achieve a fully waterproof covering. (*Multiple thin coats are better than one thick coat.)

B. SPECIAL APPLICATIONS:

SHIELD base can be used as a layer to fill voids and build up existing substrates and create a smooth surface foundation. It can be built up in 2-inch increments down to a feathered edge. For build-ups, mix to a drier consistency — a thicker mix is recommended for thicker applications.

C. TOOLS:

SHIELD can be applied by Trowel, Roller, Brush, Squeegee, or Sprayed.

D. TEXTURE:

Various textured finishes can be achieved with the same mix of SHIELD BASE. Eg. knock-down texture can be achieved using a hopper gun or hand trowel.

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APPLICATION METHODS (CONT.)

Pigmented Color Sealer:

A. SURFACE PREP:

All surfaces must be clean, free of grease, oil, dirt, dust, and other foreign materials which may prevent bonding, and must be completely dry prior to application.

B. TOOLS:

SHIELD color sealer can be applied with roller, firm pressure - or airless sprayer.

C. APPLICATION:

Apply the color sealer using a roller or airless paint sprayer. Two coats are recommended, applied in opposite directions for best coverage.

- First coat: Dilute with 50% water
- Second coat: Apply at full strength

Allow each coat to dry for a minimum of one hour before proceeding. For high traffic areas or areas of aesthetic concern, many applicators apply (2) coats of xylene based clear sealer on top of the cured color sealer. This is not necessary in normal conditions, but for high traffic or high end drivable surfaces, our applicators have found this to be effective.

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COVERAGE

Base Resin:

Coverage is approximate for one coat. The slump can be adjusted to accommodate specific job requirements by adjusting the liquid resin or the compound – do not add water to the mix.

SHIELD 5 gallons & 3 x 50lb bags = 450 ft² @ 1/16"

Pigmented Color Sealer:

SHIELD color sealer 5 Gallon will cover 800-850 ft (two coats) depending upon surface texture, porosity and workmanship.

MIXING INSTRUCTIONS

Base Resin:

NOTE: Mix to consistency not a ratio. Environment & climate will affect consistency.

1. COMBINE

Pour SHIELD resin into a clean pail & add the dry SHIELD cement compound.

2. BLEND

Blend with an electric paddle mixer until mixture is uniform. **Let FALSE SET for 4 minutes.** Blend for 1 minute more and use within 30 minutes. Add more resin if needed.

3. APPLY 1ST COAT

Apply the first smooth coat using a trowel, roller, brush, or squeegee. Follow with a second coat, then finish with a splatter coat (applied by trowel or spray).

4. APPLY 2ND COAT

- **For a simple fix:** Apply 1 coat + splatter coat
- **For a waterproof fix:** Apply 2 coats + splatter coat

Pigmented Color Sealer:

NOTE: Environment & climate will affect consistency.

1. FIRST COAT

First Coat Apply the first coat of color sealer using a roller or airless paint sprayer. **Dilute with 50% water.** Allow coat to dry for a minimum of one hour.

SECOND COAT

Apply the second coat of color sealer using a roller or airless paint sprayer. **Apply at full strength.** For best coverage, apply in opposite direction from the first coat.

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COLOR SEALER COLOR OPTIONS

Available in 10 different colors plus clear for a total of 11 options to choose from.



The creation of a job site sample panel before the application is highly recommended for color matching. This chart of colors is intended to represent the accurate color, however, the angle, type of light, and quality of light may affect the appearance. Colors may also shift by age, batch, and exposure to UV light and heat. Texture and absorption of the surface to be coated may affect the finished color.

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CURE TIMES**Base Resin:**

SHIELD base should cure for 24 to 48 hours before applying the color sealer.

Pigmented Color Sealer:

Acrylic modified cementitious overlay products must cure for 24 to 48 hours before applying color sealer. New concrete should be cured for 20 days minimum before applying color sealer. Let color sealer cure for 72 hours.

TEMPERATURE AND WEATHER FACTORS

- **Product limitations:** Do not allow SHIELD to freeze or overheat beyond 120 degrees Fahrenheit
- **Site temperature:** Do not apply SHIELD to frozen substrate or in conditions hotter than 105 degrees or colder than 40 degree. Check local weather for temperature variations and or precipitation that may affect your application.

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HANDLING AND STORAGE

Keep SHIELD products off the ground. Keep dry and out of direct sun/heat/cold.

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STANDARDS**Base Resin:**

- A. IMPACT STRENGTH 19 lbs / 8.6 kg
- B. COMPRESSIVE STRENGTH 7050 psi / 48.61 MPa
- C. TENSILE STRENGTH 732 psi / 5.05MPa
- D. FLEXURAL STRENGTH 2380 psi / 16.41 MPa
- E. ADHESIVE STRENGTH
 - Concrete: 1372 psi / 9.46 MPa
 - Steel: 1144 psi/7.89MPa
- F. SHEAR BOND ADHESION 720 psi / 4.96 MPa
- G. ASTM E96 - Vapor Transmission
- H. ASTM C321 - Bond Strength
- I. ASTM C672-Freeze-Thaw
- J. ASTM D4541.02 - Pull Off Test

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SAFETY

For safety and technical information, please visit:
www.sabalgreen.com