

Application Instructions

Generic Type: Single component solvent-based acrylic polymer

General Properties: Beton Betone Royal Seal is a gloss /low sheen, non-yellowing, acrylic-based, liquid sealer for high decorative concrete, brick, interlocking pavers, natural and manufactured stone. Transparent and easy to apply, this product enhances the beautiful rich tones with a high gloss/low sheen appearance. Beton Betone Royal Seal has been formulated to seal and protect decorative colored concrete by producing a hard, yet flexible, clear film.

High Gloss /low sheen	Non-yellowing
Infinite inter-coat adhesion	Good blush resistance
UV Light Resistant	Interior and Exterior application
Fast cure time	

Recommended Use: Applied as a film forming protective coat to increase the durability and longevity of Beton Betone Color Floor, Color Wall and Color Accents.

Not Recommended For: Pre-sealed and/or nonporous surfaces including, but not limited to ceramic and porcelain tile.

Colors: Clear only

Cure Times: (optimal)

Temperature	Relative Humidity	Recoat	Light Traffic	Wheel Traffic
73 °F	50%	2 hrs-infinite	12 hours	72 hours

Drying times may be extended depending on application rate, temperature, humidity and project conditions. Restrict foot traffic for at least six hours. Twelve hours is preferred. Abrasion resistance increases as the Beton Betone Royal Seal cures.

Solids Content

Beton Betone Royal Seal High gloss Low Sheen (by weight): 25%

Volatile Organic Content

Low Sheen Formula 700 grams/liter

Coverage per Gallon

Porous: 50-200 square feet

Dense: 200-400

Note: Coverage depends on surface porosity and profile. Atomization will increase coverage

Storage Conditions

Temperature: 45-90°F

Shelf Life

Unopened Container: 1 year

Gloss: High Gloss /low sheen

Ordering Information: Prices may be obtained from Beton Betone Products, Sales Representative or local Beton Betone Decorative Concrete Products Dealer.

Flash Point:

Beton Betone Royal Seal 105°F

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Area Preparation: Be sure to mask and cover all areas that are not intended to be stained or sealed including but not limited to door frames, doors, walls and windows.

Surface Preparation: The surface preparation phase should be viewed as the most important. Proper preparation results in the product's longevity, minimizes potential failures and creates the best environment for an aesthetically pleasing work of art. In short, the more detail and time allotted to this phase of the project will dramatically affect the appearance and durability of the finished installation.

Application to Bare/New Concrete:

- 1) Allow new concrete to cure for at least 28 days. Application of Beton Betone Royal Seal to a damp surface or incompletely cured concrete may cause a hazy appearance or loss of adhesion
- 2) Remove paint, adhesives and loose particulates from the intended application surface.
- 3) Liberally apply Beton Betone Green Clean to a 20 feet x 20 feet section of the substrate with ½ inch nap roller cover.
- 4) Allow the gel to remain on the substrate for 20 minutes.
- 5) For exterior application, utilizing a 12,000 work units* pressure washer in conjunction with a 0 degree rotating tip, remove the Beton Betone Green Clean with overlapping line patterns. For interior surface preparation, agitate Beton Betone Green Clean utilizing a floor buffer (small area) or an auto-scrubber (large area) with Mal-grit brush attachments while rinsing with clean water. Extract material utilizing a wet/dry vacuum or lower the squeegee uptake bar on the auto-scrubber. Continue to flush and agitate the substrate until the rinse water is clear.
- 6) Allow surface to dry.
- 7) Perform a "Tape Test".

**Work Units = Gallons per minute x PSI*

Tape Test: A tape test will help determine the effectiveness of the cleaning process. After the floor has been thoroughly scrubbed, rinsed and allowed to dry; apply several 1 foot strips of high quality 2" clear packaging tape to various locations on the floor. Aggressively press the tape onto the floor with the heel of your hand. Fold one end of the tape into itself and pull it off of the floor as vigorously as possible. Examine the adhesive layer in a bright light looking for residue that was pulled from the floor. Little to no dust or other foreign particles should be visible. Areas with visible foreign material need to be rinsed again until the surface is free of these.

Application to Stained Concrete: After allowing a full cure* (minimum 12 hours) time for Beton Betone Color Floor, Color Wall or Color Accents, remove all loose particulates utilizing a leaf blower. If standing water is present, remove excess water with cloth or squeegee. Allow substrate to dry before application of Beton Betone Royal Seal.

* High humidity and lower temperatures will lengthen cure time.

Mixing/Thinning Instructions: For optimum performance, gentle mixing or agitation is recommended. Do not dilute this product. CAUTION: DO NOT MIX EXCESSIVELY.

Sample Testing: Beton Betone Royal Seal should be applied to several inconspicuous test areas to assure desired performance.

Application Method: Beton Betone Royal Seal may be applied via brush, roller, pump up, HVLV or airless spray. Do not use electric sprayers.

Spray Application: A typical pump up sprayer provides an easy, economical method of application. Spray on in a fine, fog pattern, without spurts or dribbles, to form a thin, continuous film. AVOID PUDDLING in low areas. Do not allow the Beton Betone Royal Seal to dry on the sprayer tip. If this occurs, soak tip in lacquer thinner and clean with stiff brush. If puddles occur, brush or roll them out. For added protection and a greater sheen on concrete, we recommend two coats of Beton Betone Royal Seal. Additional coats may be applied after the first coat has thoroughly dried.

Roller Application: Use a 1/2 inch (heavy texture) or 3/8 inch non-shed roller cover. Beton Betone Royal Seal can be rolled onto stained substrate via a 5 gallon pail or roller pan utilizing the dip and roll method. Material should not be poured onto the stained substrate due to the rapid cure and solvency strength. Because the material dries quickly, apply liberally and work small areas. Application rate should be 200-400 sq. ft. per gallon. Do not overapply or allow excess puddles.

Brush Application: Utilize traditional bristle brush application for corners, control joints and other hard to reach places.

Recoating: Beton Betone Royal Seal indefinite inter-coat adhesion. Allow initial coat to thoroughly dry (2-24 hours) before applying additional coat.

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Moisture/Alkalinity: The absence of an effective moisture vapor barrier may create an environment for moisture vapor transmission as well as high levels of alkalinity in concrete slabs (generally, but not limited to interiors). Introducing an impermeable coating/flooring system to this environment may result in blistering or general failure. Thus, a calcium chloride test (ASTM F-1869) and/or relative humidity probe (ASTM 2170) should be conducted and is the responsibility of the installer. Beton Betone Products is not responsible for failures due to the presence of moisture vapor emissions and/or high levels of alkalinity.

Slip Resistance: OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Beton Betone Products recommends the use of angular slipresistant aggregate in all coatings that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to achieve current safety standards.

Application Directions:

	Material	Surface	Ambient	Humidity
Best	50-85°F	65-85°F	5-90°F	10-60%
Minimum	50°F	50°F	50°F	0%
Maximum	95°F	95°F	95°F	0%

Note: Do not apply sealer when substrate has direct sun (high noon).

Clean Up: While Beton Betone Royal Seal is still wet, equipment may be cleaned with Xylene. Do not allow material to dry on equipment.

Precautions: KEEP FROM FREEZING. Do not dilute. Do not apply when air, material and surface temperatures are expected to fall below 40° F (4° C) within four hours of completed application.

Cautions/Warning: MATERIAL AND VAPORS ARE EXTREMELY FLAMMABLE. Extinguish all flames, pilot lights and electric motors until all vapors are gone and the coating is hard. Keep away from sparks, heat and open flame. Use with adequate ventilation when mixing, applying and curing. Product emits harmful solvent vapors which can cause respiratory irritation. Individuals with chronic lung or breathing problems should not use this product. The use of a self-contained respiratory equipment (TC 19C NIOSH/MESA) is recommended. Prevent all contact with skin. Use impermeable gloves and chemical resistant eye protection.

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