



KINGDOM GUARD PLUS

SILOXANE MODIFIED METHYL METHACRYLATE SEALER - HIGH GLOSS TECHNICAL DATA AND APPLICATION INSTRUCTION

PRODUCT DESCRIPTION

Kingdom Guard Plus is a non-yellowing, high gloss, Siloxane Modified Methyl Methacrylate Sealer with excellent adhesion to unsealed or untreated, clean concrete substrates. **Kingdom Guard Plus'** unique formulation provides superior water and salt resistance compared to standard sealers used to protect exterior concrete. Improved resistance to de-icing road salts, pool decks with salt water pool systems, rain, sleet and snow are achieved due to this advanced chemical reactive formula. **Kingdom Guard Plus** also meets cure & seal specs ASTM C-1315, Type 1, Class A & B, it can be applied directly to fresh poured concrete after all surface water has dissipated.

BENEFITS/FEATURES

- Minimizes damage due to water and salt water from de-icing road salts and salt water pool systems.
- Excellent adhesion to clean, unsealed new or old concrete.
- Non-Yellowing tough Siloxane Methyl Methacrylate.
- VOC Compliant formula to meet EPA Aim regulations within the U.S. and Canada for concrete cure & seals.
- Apply over many existing solvent based acrylic sealers to increase water & salt resistance (**test for compatibility first**).
- Easy to use, fast drying, high gloss appearance

RECOMMENDED APPLICATIONS

Kingdom Guard Plus is recommended for use on new or existing Pool Decks, Stamped Concrete, Stenciled Concrete, Acid Stained Concrete, Overlaid Concrete, Exposed Aggregate Concrete, Broom Finish Concrete, and Trowel Finish Concrete. Other uses may be acceptable.

TECHNICAL INFORMATION

Solids.....	25 ± 1 %	Wet Appearance.....	Clear to slightly hazy
Drying Time.....	30 min - 1 hour	Dry Appearance.....	Clear and High Gloss
Re-Coat Time.....	4 - 24 hours	VOC Content.....	<350 g/l
Foot Traffic.....	4 - 6 hours	Blush Resistance.....	Good
Wheel Traffic.....	24 - 48 hours	Solvent Resistance.....	Minimal
Application Temp.....	50°F - 80°F	Concrete Adhesion.....	Excellent

**Please note that low air, concrete temperatures and relative humidity may extend drying times.
Follow recommended coverage rates for best results.**

SPECIFICATIONS/COMPLIANCES

ASTM C 1315, Type 1, Class A & B • AASHTO Specification M-148, Type 1, Class A & B

APPROXIMATE COVERAGE RATES

<u>Application Surface</u>	<u>First Coat</u>	<u>Optional Second Coat</u>
New (unsealed) concrete	200-300 ft ²	275-375 ft ²
Old (sealed) concrete	300-400 ft ²	350-400 ft ²

*Coverage rates vary depending upon surface porosity and texture, and application method. Excessive build up should be avoided.

SHELF LIFE

Kingdom Guard Plus has a shelf life of one year from manufacture date in it's original, sealed, unopened container.

PACKAGING

Kingdom Guard Plus is packaged in 1 gallon cans, 5 gallon pails, and 55 gallon drums.

INSTRUCTIONS FOR USE

KINGDOM GUARD PLUS

SURFACE PREP: Concrete surface must be clean and free of all contaminants and water. Do not apply if rain is forecast within 24 hours. If moisture is present or if the surface is not clean and free of all contaminants, the sealer may have white spots and have premature de-lamination and failure.

When applied as a Cure & Seal the Kingdom Guard Plus may be applied on freshly placed concrete when all the surface water has dissipated and the surface is damp (not “wet”).

Substrate temperature and Ambient temperature must be no less than 50 degrees F and not exceed 80 degrees F. If applied outside these limits the sealer may not achieve adequate film formation and may have excessive air entrapment, bubbles, blushing or hazing. The material performs best when it's temperature at the time of application is between 60 F - 70 F.

MIXING: Stir well before using. Material may separate during long term storage.

APPLICATION: Apply using a 3/8” nap roller cover using long even uniform strokes at approximately 200-400 square feet per gallon depending job requirements, porosity and texture of substrate. An airless sprayer containing a .519 tip size may be used as well. Thick or puddle areas may prevent the solvent from evaporating and may be susceptible to moisture intrusion which may cause milky white spots. Applying too thin may cause sealer to prematurely delaminate, flake or wear away. Allow sealer to dry for 24 hours for light traffic and at least 48 hours for heavy traffic. If applying two coats, wait approximately 4 – 6 hours between coats.

PLEASE NOTE: It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture etc. When applying, do not exceed 400 sq. ft. per gallon. Applying too thin of a coating may cause inadequate film formation or performance expectations may be limited. DO NOT USE ON BRICK.

CLEAN-UP

Use Xylene, Acetone or MEK. Dispose of containers in accordance with local and federal regulations.

PRODUCT REMOVAL

Dried, cured sealer may be removed with a commercial paint stripper, such as *Nock Off* or by using a diamond grinding method, sandblasting method or similar mechanical action.

PRECAUTIONS AND LIMITATIONS

- **Kingdom Guard Plus** will not freeze during storage, however, allow temperature to rise to 60 degrees F prior to application.
- All HVAC ventilation ducts should be somehow blocked prior to application so solvents fumes are not distributed.
- Keep away from open flames. **Kingdom Guard Plus** is flammable and is very susceptible to ignition.
- It is not recommended to apply **Kingdom Guard Plus** over carpet, tile, and other types of floor adhesives.
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, ect.
- **Kingdom Guard Plus** works best when applied in two thin coats, not one thick coat.
- Please be aware that this product when cured may be slippery when wet. To reduce slip hazards add *Grip Fine* as needed.
- **Kingdom Guard Plus** is not resistant to brake fluid, gasoline, and many similar products.
- It is not recommended to thin **Kingdom Guard Plus**. Improper thinning may cause sealer to delaminate in a short time frame.
- **Kingdom Guard Plus** may darken the surface of many new and existing concrete slabs. Test prior to use.

SPECIAL NOTES

Please consult Material Safety Data Sheet (MSDS) and read Warranty information prior to use.

