



## **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. This unique formulation provides superior water & 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 & snow are achieved due to this advanced chemical reactive formula. **Kingdom Guard Plus** can be applied 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. ▪ Pigment Packs Available
- VOC Compliant formula to meet EPA Aim regulations within the U.S. and Canada for concrete cure & seals.
- Apply over many existing solvent based 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 cured Decorative Concrete. Stamped, Stenciled Concrete, Acid Stained and Exposed Aggregate.

#### **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
Full Cure.....	7 Days	Concrete Adhesion.....	Excellent
Application Temp.....	50°F - 80°F		

\*\*Please note that low air, concrete temperatures and relative humidity may extend drying times.

#### **SPECIFICATIONS/COMPLIANCES**

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

#### **APPROXIMATE COVERAGE RATES**

<b>Application Surface</b>	<b>First Coat</b>	<b>Optional Second Coat</b>
Fresh Concrete (green-same day)	200-250 sq ft/gallon	<i>not recommended</i>
Cured Decorative Concrete	200-250 sq ft/gallon	300-350 sq ft/gallon
Cured Standard Concrete	<i>not recommended</i>	<i>not recommended</i>

\*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.

**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.

**RESEAL:** Clean the surface thoroughly with clean water and a mild detergent or *Kingdom Products' Majestic Concrete Surface Prep*, coupled with agitation, to ensure that the surface is free of all bond breaking contaminants. Allow the surface to dry completely. Spray and/or roller apply *Acetone* or a *VOC compliant solvent* to the entire surface. This will soften the existing sealer and allow for a better bond with the new sealer. If your sealer has worn unevenly, take this opportunity to spread sealer into areas that have none, reapplying solvent as necessary to keep the sealer liquefied. Allow the surface to dry for approximately 2-4 hours and if needed apply sealer as directed above.

## CLEAN-UP & PRODUCT REMOVAL

Use Xylene, Acetone or MEK. Dispose of containers in accordance with local and federal regulations. 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 product to rise to 60°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, etc.
- **Kingdom Guard Plus** works best when applied in two thin coats, not one thick coat.
- This product when cured, will 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.
- **Kingdom Guard Plus** is not designed for use on flatwork. Solvent based sealers will highlight finishing marks in the concrete giving the surface a splotchy appearance.
- **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. FOR PROFESSIONAL USE ONLY!