



## KINGDOM GUARD

### SILOXANE MODIFIED METHYL METHACRYLATE SEALER - LOW SHEEN TECHNICAL DATA & APPLICATION INSTRUCTION

#### PRODUCT DESCRIPTION

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**Kingdom Guard** is a non-yellowing, low sheen, *Siloxane Modified Methyl Methacrylate* with a low viscosity for better penetration on concrete substrates. **Kingdom Guard's** 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** also meets cure & seal specs ASTM C-309, Type 1, Class A & B, AASHTO Spec M-148, Type 1, Class A & B so it can be applied directly to fresh poured concrete after all surface water has dissipated.

#### BENEFITS/FEATURES

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- 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 sealers to increase water & salt resistance (**test for compatibility first**).
- Easy to use, fast drying, high gloss appearance
- Pigment Packs Available

#### RECOMMENDED APPLICATIONS

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**Kingdom Guard** 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

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Solids.....	15 ± 1 %	Wet Appearance.....	Clear to slightly hazy
Drying Time.....	30 min - 1 hour	Dry Appearance.....	Clear and Low 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 and/or concrete temperatures and/or relative humidity may extend drying times. Follow recommended coverage rates for best results.*

#### SPECIFICATIONS/COMPLIANCES

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ASTM C 309, Type 1, Class A & B • AASHTO Specification M-148, Type 1, Class A & B

#### APPROXIMATE COVERAGE RATES

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

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

#### SHELF LIFE

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

#### PACKAGING

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**Kingdom Guard** 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 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°F and not exceed 80°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:** It is not recommended to roll **Kingdom Guard** because of the viscosity of the product. A solvent resistant, airless sprayer with a .519 tip size should be used. If rolling is necessary, a 1/4”nap, lint-free roller cover using long even uniform strokes would be recommended. Do Not Overapply; thick or puddled 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

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

## PRODUCT REMOVAL

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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

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- **Kingdom Guard** will not freeze during storage, however, allow temperature 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** is flammable and is very susceptible to ignition.
- It is not recommended to apply **Kingdom Guard** over carpet, tile, and other types of floor adhesives.
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, ect.
- **Kingdom Guard** 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** is not resistant to brake fluid, gasoline, and many similar products.
- It is not recommended to thin **Kingdom Guard**. Improper thinning may cause sealer to delaminate in a short time frame.
- **Kingdom Guard** 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** will darken the surface of many new and existing concrete slabs. Test prior to use.

## SPECIAL NOTES

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Please consult Material Safety Data Sheet (MSDS) and read Warranty information prior to use. FOR PROFESSIONAL USE ONLY!