



KD-309

LOW-GLOSS CURING & SEALING COMPOUND TECHNICAL DATA & APPLICATION INSTRUCTION

PRODUCT DESCRIPTION

KD-309 ASTM C309 is a VOC compliant, UV resistant, low viscosity 15% solids, low-gloss solvent based acrylic copolymer curing and sealing compound, as well as a dust-proofer for concrete surfaces. **KD-309** offers improved resistance to rain, sun, freezing temperatures, stains, and other pollutants that sometimes can be hazardous to concrete.

KD-309 forms a superior moisture retentive film on freshly placed concrete. Provides excellent protection and color enhancement for decorative concrete.

BENEFITS/FEATURES

- Can be used as a means of dustproofing most concrete surfaces.
- Low viscosity formula makes this product very easy to spray.
- Rolls out smooth with no roller streaks. Sprays easy.
- Easy to use, UV-resistant, Low/Medium-Gloss, Low Cost

RECOMMENDED APPLICATIONS

KD-309 is recommended for both interior and exterior freshly placed, finished decorative concrete where a low gloss solvent based curing and sealing compound is specified. Not recommended for standard concrete.

APPROXIMATE COVERAGE RATES

<u>Application Surface</u>	<u>First Coat</u>	<u>Second Coat</u>
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.

TECHNICAL INFORMATION

Solids.....	15%	Wet Appearance.....	Clear
Drying Time.....	30 min - 1 hour	Dry Appearance.....	Clear with Low/Med Gloss
Re-Coat Time.....	4 - 24 hours	VOC Content.....	350 g/l
Foot Traffic.....	4 - 6 hours	Blush Resistance.....	Superior
Wheel Traffic.....	24 - 48 hours	Solvent Resistance.....	Minimal
Full Cure.....	.7 Days	Concrete Adhesion.....	Excellent
Application Temp.....	40°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

ASTM C 309, Type 1, Class A & B, AASHTO Specification M-148, Type 1, Class A & B - DRIED COATING IS USDA ACCEPTED - This product complies with federal AIM Rule VOC regulations and with VOC standards in Ohio, Illinois, Maryland, New York, New Jersey, Delaware, Pennsylvania, Maine, New Hampshire, Virginia, and the District of Columbia.

SHELF LIFE

KD-309 has a shelf life of up to two years in it's original, sealed, unopened container.

PACKAGING

KD-309 is packaged in 1 gallon, 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 **KD-309** 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 **KD-309** because of the viscosity of the product. A solvent resistant, airless sprayer with a .519 tip size (red) 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.**

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. Dispose of containers in accordance with local and federal regulations. Dried, cured sealer may be removed with a commercial paint stripper or by using a diamond grinding method, sandblasting method or similar mechanical action.

PRECAUTIONS AND LIMITATIONS

- **KD-309** will not freeze during storage, however, allow temperature to rise to 50°F prior to application.
- Block all HVAC ventilation ducts prior to application to eliminate distribution of solvent fumes.
- Keep away from open flames. **KD-309** is flammable and is very susceptible to ignition.
- It is not recommended to apply **KD-309** over carpet, tile or other types of floor adhesives.
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- **KD-309** was designed as a cure & seal and to be applied in one-two light coats, not one thick coat.
- Please be aware that this product when cured may be slippery when wet.
- **KD-309** is not resistant to brake fluid, gasoline, and many similar products.
- It is not recommended to thin **KD-309**. Improper thinning may cause sealer to delaminate in a short time frame.
- **KD-309** may darken the surface of many new and existing concrete slabs. Test prior to use.
- **KD-309** is not designed for use on flatwork. Solvent based sealers will highlight finishing marks in the concrete giving the surface a patchy appearance.
- Solvent vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations distant from material handling point.

SPECIAL NOTES

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