



# TOP CAP OVERLAY - SMOOTH

## BROOMABLE - SPRAYDOWN/KNOCKDOWN OVERLAY & RESURFACER TECHNICAL DATA & APPLICATION INSTRUCTION

### PRODUCT DESCRIPTION

Kingdom Products **Top Cap-Smooth** is a one component Broomable / Spraydown Overlay engineered to develop maximum strength and attain a tenacious bond to a cured concrete substrate. This product can be used to simply restore standard concrete or can be pigmented and used in a variety of applications including standard broom finish concrete restoration. **Top Cap-Smooth** can be applied in numerous decorative applications including spray down knock down or cool deck type finishes. **Top Cap-Smooth** is compatible for use with adhesive stencil applications. **Top Cap-Smooth** is suitable for interior or exterior use and formulated to stand up to a harsh freeze-thaw environment.

### BENEFITS

- Excellent Adhesion - no bonding agent needed
- Low Build
- One-component
- Smooth Finish
- Interior / Exterior
- Inexpensive solution to tear-out

### RECOMMENDED APPLICATIONS

- Resurfacing driveways, sidewalks, garages, patios
- Building Entrances & Steps
- Pool Decks, Patios & Porches
- Spraydown/Knockdown
- Stencil Applications
- Resurfacing to cover repaired or discolored concrete

### TECHNICAL INFORMATION

Tensile Strength.....	194 psi	Compressive Strength (28 Day).....	2500 psi
Flexural Strength.....	.800 psi	Wet Appearance.....	Light or Dark Gray
Working Time.....	15-60 min (environ dependent)	Dry Appearance.....	White or Light Gray
Drying/Re-Coat Time.....	1 - 2 hours	Concrete Adhesion.....	Excellent
Foot Traffic.....	12 - 24 hours	Freeze-Thaw Resistance.....	Excellent
Wheel Traffic.....	24 hours	Rain Concern.....	not if forecast within 24 hours
Application Temp.....	50°F - 85°F	Rain Concern (w/ color).....	not if forecast within 48 hours

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

### APPROXIMATE COVERAGE RATES

Varies by thickness - On average, at one coat, each 50 lb bag will cover approximately:

**Trowel** • 80 - 100 sq ft at 1/8"      **Squeegee** • 150 - 160 sq ft at 1/16"

### PACKAGING

**Top Cap-Smooth** is stocked and sold in 50 lb bags and is available in White or Natural Gray.

### STORAGE & SHELF LIFE

Do not subject **Top Cap-Smooth** to moisture prior to use. Keep product in a cool dry location, free from direct sunlight. In cold climates, store the product at room temperatures and bring product to a temperature range of 50° to 85° prior to use. Colder material may take longer to achieve final set time, while hot material may set very quickly. Keep in a tightly sealed container. Avoid storing directly on top of a concrete slab. Place a barrier between the **Top Cap-Smooth** mix bags and the concrete floor (i.e. plastic, pallet, etc). Shelf life is one year from the date of manufacture as long as containers remain unopened and stored under the proper conditions, in an environment free of moisture, direct sunlight, excessive heat and freezing temperatures. To extend shelf life, transfer any leftover material to a plastic pail.

Apply **Top Cap-Smooth** to a **cured** concrete surface only. All surfaces to be coated must be free of all bond breaking contaminants including but not limited to, dust, dirt, debris, loosely adhered materials, oil, paint & sealer. To ensure excellent performance, clean area to be repaired by mechanical means using surface grinder, diamond cup wheel or similar type tooling. Dust created by prep work should be removed by flushing area with clean water. Etching using *Majestic Concrete Prep* coupled with mechanical agitation with a 175rpm floor scrubber fitted with a nylon grit brush, will provide excellent surface preparation for non sealed surfaces. **Note:** If using *Majestic Concrete Prep* as a preparation method, the final rinse should contain a neutralizing agent such as ammonia or baking soda with water. If substrate was previously sealed, use a surface grinder to remove existing sealer and to open up the pores of the concrete, this will allow proper adhesion. Allow the surface to dry out completely before beginning application.

## MIXING

If adding liquid color, add it to your mix water before adding the dry powder product. Add a total of 6 to 6.5 quarts of clean water to one 50 lb. bag of **Top Cap-Smooth**. Mix thoroughly until all dry powder is dissolved. Let product sit for 2 minutes and remix the material again. **DO NOT Overwater** - contains polycarboxylate plasticizer & polymer. Apply to substrate without delay.

## APPLICATION

The substrate should be saturated surface dry (SSD) meaning wet, but with no standing water, before beginning application. Mist the surface with water. Pour a small amount of mixed product onto the damp surface and trowel smooth or pull out a skim coat with the squeegee. When using White Top Cap-Smooth, be sure to use the proper tools to avoid discoloration of the material, i.e. plastic instead of steel. A two coat application is recommended, allowing the first coat to fully dry for about 1 - 2 hours before the application of the final coat. Mist the surface with water between coats. If a broom finish is desired, broom immediately on your final coat. Broom as soon as you have enough product down to pull the broom.

**Do not wait until your entire second coat is applied to start brooming. NOTE: DO NOT WET THE BROOM!**

**STAINING:** Allow **Top Cap** to dry completely before applying a stain. 24-48 hours of cure time is recommended. Stains & Dyes will have a different appearance on overlay products than on standard concrete. Always test prior to use. Adhering to the sealing guidelines for the stain or dye used, apply a thin coat of sealer as soon as possible to ensure colorfastness.

**SEALING:** Allow **Top Cap** to dry completely before applying a sealer. If you are not planning to topically stain the **Top Cap**, we recommend a light coat of a water-based sealer like *Kingdom Products' Regal Seal WB* or a solvent-based sealer like *Kingdom Guard*, as soon as possible to avoid discoloration of the **Top Cap**. **Top Cap** may discolor should excessive moisture become present before the product has had a chance to cure. *If necessary, a pigmented sealer option is available.*

**NOTE:** As with concrete and other cementitious or masonry products, surface staining and tire marking may occur. Apply a clear film-forming sealer to enhance stain resistance and cleanability.

## PRECAUTIONS AND LIMITATIONS

- Apply **Top Cap-Smooth** to a properly prepared CURED substrate! Do not apply over dust, dirt, debris or a previously sealed surface until all of the sealer has been removed.
- DO NOT overwater this product!
- **Top Cap-Smooth** is not intended to be applied in a thick coat. Doing so may result in shrinkage cracks.
- Avoid using in temperatures below 50°F or above 85°F.
- **Top Cap-Smooth** may reflect moving cracks and control joints. Re-cut control joints.
- Apply a clear, film-forming sealer to enhance stain resistance, clean-ability and to retain colorfastness.
- Staining, streaking & efflorescence may occur when fresh coating is exposed to excessive ponding or running water.
- The proper application of this product is the sole responsibility of the end user. Supervision and quality control are the sole responsibility of the end user.
- When using any white, cementitious material, be sure to use the proper tools to avoid discoloration.

## SPECIAL NOTES

Please consult Safety Data Sheet (SDS) and Technical Data Sheets (TDS) and read Warranty information prior to use.

**FOR PROFESSIONAL USE ONLY!** Always install a test area or job site mock up for owner approval of acceptable color, texture, finish adhesion and any other critical requirements prior to proceeding with the installation. Verify that the most current versions of the Technical Data Sheets (TDS) and installation guidelines are being utilized.