

# Protec III

## Restore

*Polishing Concrete*

### DESCRIPTION

Protec III Restore is a VOC-free densifier and chemical hardener used for polishing concrete. Protec III Restore is chemically activated by the alkali in concrete to solidify and fill the voids. This chemical reaction produces a smooth, denser surface for easy grinding and polishing techniques.

### PRIMARY APPLICATIONS

Warehousing/Distribution Centres/Malls/Commercial and Retail Stores/Arenas/Parkades

### FEATURES/BENEFITS

*Hardens and Densifies Concrete*

*No flushing or rinsing required*

*Does not yellow or discolor*

*Hardens the surface against damage*

*Easy Penetration for ease of application*

*Improves Light Reflectivity*

*Environmentally Safe and non-hazardous*

*VOC Content - 0.00 g/L*

*Produces surface gloss that improves with abrasion*

*Improves Freeze Thaw Resistance*

### TECHNICAL INFORMATION

VOC Content - 0 g/L

Flashpoint - none

Viscosity - water thin

pH - 10.9

Specific Gravity - 1.10

Color - Amber

Odor - None

Surface Breathable - Yes

Skid Resistance - Fair

Drying Time at 70F (21C)

Light Foot Traffic - 2 to 3 hrs

Wheel Traffic - 24 hours

Physical State: Liquid

Polishing Concrete



CORNERSTONE COATINGS

Toll Free: 1.866.878.7069 website: [www.cornerstonecoatings.com](http://www.cornerstonecoatings.com)

**COVERAGE**

Typical rate on hard troweled dense concrete is 300 - 400 sq.ft/gallon.

On ground concrete use at a rate of 400-600 sq.ft/gallon

For best results we recommend 2 coats.

**SHELF LIFE**

3 Years in original, unopened container.

Protect from Freezing.

**PACKAGING**

55 gallon drums (205 Litre)

5 gallon pails (18.9 Litre)

**MIXING INSTRUCTIONS**

Product is Ready to Use - do not dilute.

**WARRANTY**

We warrant our products to be of good quality and free of defects in material and workmanship. See full warranty upon request.

**SURFACE PREPARATION**

Protect surrounding areas from overspray, spills, tracking and equipment contact. In case of accidental contact, rinse thoroughly with water immediately.

**Old Concrete/Existing Concrete**

Ensure all surfaces are structurally sound and free of all contaminants such as oil, contaminants and any film forming curing compounds and sealers.

Fill and repair all holes, cracks and deteriorated areas before application.

All Concrete should be thoroughly cleaned and rinsed with clean water. After washing allow the concrete to dry completely before application.

**New Concrete**

Ensure surfaces are clean and free of all contaminants, and any film forming curing compounds or sealers.

Ensure the concrete has been cured for a minimum of 3 days before application.

On colored concrete, Protec III Restore must be applied to fully cured concrete that is a minimum of 28 days old to allow for adequate penetration of the surface.

During cooler temperatures or higher relative humidity conditions, the drying interval should be increased to achieve the level of dryness necessary for good penetration.

Polishing Concrete



**INITIAL GRINDING - for salt & pepper look**

Grinding the concrete to an initial surface profile (200-400 grit) is an option if you would like the salt and pepper look of the concrete. Grinding must occur prior to the application of Protec III Restore. Concrete substrates that are contaminated with oil, grease or other substances after grinding to the initial surface profile should be thoroughly cleaned and dried before application of Protec III Restore.

Apply first coat at approximately 400-600 ft<sup>2</sup>/gal using a low pressure sprayer or by spreading evenly with a micro fiber pad. A micro fiber pad gives better even distribution of the product and will minimize puddling. Keep the surface wet for 30 minutes by applying more product where the surface has dried or redistribute product with micro-fiber pad.

Do not allow material to form puddles on the surface as this may cause white residue to form and stain.

When dry, proceed with additional required polishing steps. After the 800 grit level and before the final polishing steps, uniformly apply the 2nd coat at 600-800 ft<sup>2</sup>/gallon and spread with a micro-fiber pad. Keep the surface wet for 30 minutes by re-dispersing product with micro-fiber pad. Do not allow product to puddle.

Allow to dry and remove any residue with polishing diamonds. No water-flush is required.

**POLISHING CONCRETE / HARDEN AND DUSTPROOF**

If you want to polish concrete without the salt and pepper look, use the following procedure.

Apply Protec III Restore at a rate of 300 - 400 square foot per gallon by sprayer or micro-fiber pad. Make sure concrete stays wet for 30 minutes by re-applying more Protec III Restore or by re-distributing the existing product using a micro-fiber pad. Do not puddle the product. No rinsing of Protec III Restore is needed. Let Protec III Restore dry before polishing the concrete.



**FINAL STEPS****POLISHING**

After treatment, continue honing, burnishing, and polishing the treated concrete to the intended final finish profile. Use anywhere from 400-1500 grit using progressively finer polishing disks.

If wet polishing, remove the slurry residue between diamond changes using a wet vacuum or squeegee and rinse thoroughly removing excess water and slurry. After the final finish profile is achieved, allow the polished concrete to dry completely prior to any further surface treatment.

For increased stain resistance and water repellency, apply one coat of Repel after the concrete has completely dried.

**BURNISHING**

Protec III Restore can be burnished to a high sheen on steel trowel concrete floors. A high-speed burnisher (2000-2200 rpm) with appropriate maintenance pad is needed.

**MAINTENANCE**

Protec III Restore polished floors require very little maintenance other than scheduled scrubbing with water and a neutral or alkaline cleaner. All spills should be cleaned up in a timely manner. No waxes or subsequent surface treatments are necessary. Additional coats of Repel may be required periodically as needed.

**CLEAN-UP**

Clean up equipment and tools with a mild soap and water.

**CAUTIONS**

Immediately wash off over-spray from glass, aluminum, or highly polished surfaces with water to avoid etching. Product is slippery when wet.

Do not apply product if the temperature of the concrete is less than 40 F (4 C) or above 135F (57C)

Keep the product from freezing. Do not allow Protec III Restore to form puddles, remove puddles by moving the product around with a microfibre pad or broom puddles out before they dry as staining may occur.

Wear skin and eye protection. Wash thoroughly after handling. See MSDS for complete precautions.

