CONCRETE RESTORATION PRODUCTS

TECHNICAL DATA SHEET (TDS)

Overlay Primer / Grind & Grout

PRODUCT DESCRIPTION

CRP Overlay Primer / Grind & Grout is a concentrated water-based acrylic primer and concrete polishing grout aid designed for use with cementitious overlays, microtoppings, skim coats, decorative resurfacing systems, and polished concrete applications.

The product promotes substrate wetting, reduces rapid moisture loss, improves bond development, and may be used during grinding operations to assist in filling pinholes, bug holes, air voids, micro-cracks, and minor surface imperfections using concrete grinding dust.

Unlike traditional film-forming primers, CRP Overlay Primer / Grind & Grout may be diluted to suit substrate conditions while maintaining excellent penetration and dust-binding characteristics.

Suitable for interior and exterior applications.

FEATURES & BENEFITS

- Multi-purpose primer and grind grout
- Helps improve overlay bond performance
- Reduces substrate dehydration
- Helps fill pinholes and surface voids
- Assists in crack and bug hole reduction
- Compatible with concrete grinding dust
- Adjustable dilution rates
- Low odor
- Water cleanup
- Easy application
- Interior and exterior use
- Concentrated formulation

IDEAL APPLICATIONS

- Microtoppings
- Trowel-down overlays
- Skim coats
- Decorative resurfacing systems
- Cementitious overlays
- Concrete polishing projects
- Grind and grout applications
- Surface refinement prior to polishing
- Pinhole reduction
- Bug hole filling

- Minor surface defect repair

TECHNICAL DATA

Property	Typical Value
Appearance	Milky white liquid
Dry Appearance	Clear to low sheen
Odor	Mild
pH	8.5-9.5
Specific Gravity	1.00-1.04
VOC Content	<50 g/L
Solubility	Water soluble
Active Content	23-27%
Total Solids	23-27%
Relative Density	1.00-1.04
Freeze Point	32°F (0°C)

COVERAGE RATE

Coverage rates will vary depending upon dilution, substrate porosity, surface texture, and application method.

Overlay Primer Applications:
Approximately 200–400 ft^2 per gallon.

Grind & Grout Applications:
Approximately 300–1,000 ft^2 per gallon.

SURFACE PREPARATION

- Surface must be clean, sound, dry or surface damp, free of contaminants, free of curing compounds, and free of oils and grease
- Remove all loose materials before application
- Vacuum thoroughly prior to application
- Leaf blowing is acceptable to remove loose dust and fines

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OVERLAY PRIMER DILUSION GUIDE

Very Porous Concrete

- Use Full Strength

Porous Concrete

- Dilute 2:1
- (2 Parts Product : 1 Part Water)

Normal Concrete

- Dilute 1:1
- (1 Part Product : 1 Part Water)

Dense Concrete

- Dilute 1:2
- (1 Part Product : 2 Parts Water)

Between Overlay Coats

- Dilute 1:1 to 1:3

GRIND & GROUT DILUSION GUIDE

Soft / Porous Concrete

- Full Strength to 2:1
- (Product : Water)

Average Concrete

- 1:1
- (Product : Water)

Hard Concrete

- 1:1 to 1:2
- (Product : Water)

Dense Decorative Concrete

- Start at 1:2 and adjust as necessary

Proper slurry should have a creamy consistency. If slurry appears:

- **Too Dusty** → Increase product concentration
- **Too Watery** → Increase product concentration
- **Smearing or Gumming** → Add water

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APPLICATION INSTRUCTIONS

1. Apply using pump sprayer, soft broom, brush, or squeegee. Do not apply using microfiber applicators.
2. Apply a thin uniform coat.
3. Avoid puddles and excessive film build.
4. Allow material to penetrate substrate.
5. Remove excess material if necessary.

OVERLAY INSTALLATION WINDOW

For best results:

- Apply overlay within 6–8 hours of primer application
- Do not allow primer to remain exposed for extended periods
- Surface should appear dry-to-touch prior to overlay placement
- Surface should not have standing liquid

DRY AND CURE TIMES

- Dry time: 30-60 minutes
- Overlay window: 6-8 hours

⚠ IMPORTANT APPLICATION NOTES

- Do NOT overapply
- Avoid heavy film build
- Avoid puddling
- Product should penetrate surface
- Harder concrete generally requires less material
- Softer concrete generally requires more material
- Remove excess residue before final polishing steps
- Always perform a test area before full application

LIMITATIONS

- Not intended as a standalone coating, sealer, guard, or wear surface
- Not intended as a moisture mitigation system
- Not designed to bridge moving cracks or active structural cracks
- Excessive application may result in surface film formation
- Heavy film build may reduce overlay bond performance
- Do not allow material to puddle or dry as a visible coating

For Overlays:

- Self-leveling overlays and microtoppings should generally be installed within 6-8 hours of primer application
- Do not allow primer to remain exposed for extended periods before overlay placement
- Primer should be dry-to-touch and free of contamination prior to overlay installation

For Grind & Grout:

- Product is intended to work in conjunction with concrete grinding dust and is not designed to function as a standalone grout material
- Optimal dilution rates will vary depending on concrete hardness, porosity, and grinding conditions
- Excessive concentration may cause smearing, gumming, or increased grinding resistance
- Insufficient concentration may reduce dust binding and filling effectiveness

CLEANUP

Clean tools and equipment with **water immediately after use**

STORAGE & SHELF LIFE

- Store in original container
- Store out of direct sunlight
- Keep tightly closed
- Store between **50°F – 90°F (10°C – 32°C)**
- Do not freeze
- Shelf life: **12 months (unopened)**

PACKAGING

1-gal, 5-gal, 55-gal, 275-gal totes

⚠ SAFETY INFORMATION

- Causes skin and eye irritation
- Avoid contact with eyes and skin
- Use appropriate PPE (gloves, eye protection)
- Use in well-ventilated areas

FIRST AID

- Eyes: Flush with water for 15 minutes
- Skin: Wash with soap and water
- Inhalation: Move to fresh air. If symptoms persist, seek medical attention
- Ingestion: Seek medical attention

DISPOSAL

Dispose of in accordance with **local, state, and federal regulations**

CONCRETE RESTORATION PRODUCTS

MANUFACTURER

Concrete Restoration Products
2626 Lavery Ct 301, Newbury Park, CA 91320
(855) 846-8277

LIMITED WARRANTY

FOR PROFESSIONAL USE ONLY.

The manufacturer warrants this product to be of uniform quality. Liability is limited to replacement of product only. User assumes all risks and responsibility for use and application.