CONCRETE RESTORATION PRODUCTS

TECHNICAL DATA SHEET (TDS)

DH-PERMASHIELD

PRODUCT DESCRIPTION

DH-PERMASHIELD is a propriety high-performance, water-based hybrid lithium silicate densifier and reactive sealer primer designed to harden, densify, and provide initial water repellency to concrete surfaces. Engineered specifically for polished concrete systems, DH-PERMASHIELD enhances surface durability, improves polish clarity, and prepares the substrate for guard or protective coatings.

FEATURES & BENEFITS

- Deep penetrating lithium densifier
- Improves surface hardness and abrasion resistance
- Reduces dusting and surface porosity
- Provides early-stage water repellency
- Enhances polish clarity and reflectivity
- Fast drying and easy application
- Compatible with most guard systems
- Low VOC, water-based formulation

TYPICAL APPLICATIONS

- Polished concrete (new and existing)
- Retail and commercial floors
- Warehouses and distribution centers
- Decorative concrete systems
- Concrete prep prior to guard/sealer application

RECOMMENDED USE

- All concrete surfaces
- Applied at 200 grit polishing stage prior to final densification or guard application

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TECHNICAL DATA

Property	Typical Value
Appearance	Clear to slightly hazy liquid
Odor	Mild
pH	~11.0 – 11.8
Specific Gravity	~1.06 – 1.07
VOC Content	< 55 g/L
Full Reaction	24-72 hours
Active Content	8.0-9.0%
Total Solids	8.0-9.0%
Relative Density	1.07-1.10
Freeze Point	32°F (0°C)

COVERAGE RATE

- Polished concrete: 400–800 sq ft/gal
- Porous concrete: 250–400 sq ft/gal

Coverage will vary based on surface porosity and application method.

SURFACE PREPARATION

- Surface must be **clean, dry, and free of contaminants**
- Remove coatings, sealers, grease, and curing compounds
- Mechanical preparation may be required for best results

APPLICATION INSTRUCTIONS

1. Apply before final cut during polishing.
2. Saturate surface evenly using sprayer or microfiber applicator.
3. Keep surface damp for **5–10 minutes**.
4. Do not allow product to dry in puddles.
5. Remove excess and allow to dry.
6. Continue polishing process after dry.

DRY AND CURE TIMES

- Dry to touch: 30–60 minutes
- Light traffic: 2–4 hours
- Polishing may resume: When dry
- Full cure: 24 hours

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⚠ IMPORTANT APPLICATION NOTES

- DO NOT OVERAPPLY
- Always keep surface uniformly damp
- Remove excess to prevent residue
- Test in a small area prior to full application

LIMITATIONS

- Do not apply to frozen or contaminated surfaces
- Avoid over-application (may cause residue)
- Not a standalone topical sealer
- Always test before full application

CLEANUP

Clean tools and equipment with water immediately after use

STORAGE & SHELF LIFE

- Store in original container
- Keep tightly closed
- Store between **40°F – 100°F (5°C – 38°C)**
- Do not freeze
- Shelf life: **12 months (unopened)**

PACKAGING

1-gal, 5-gal, 30-gal, 275-gal totes

⚠ SAFETY INFORMATION

- Alkaline material – avoid contact with skin and eyes
- Use appropriate PPE (gloves, eye protection)
- Use in well-ventilated areas
- Refer to SDS for complete safety information

DISPOSAL

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

MANUFACTURER

Concrete Restoration Products
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CONCRETE RESTORATION PRODUCTS

LIMITED WARRANTY

FOR PROFESSIONAL USE ONLY.

CRP products are manufactured to strict quality standards. No warranty is expressed or implied beyond product replacement. Proper application is the responsibility of the user.