CONCRETE RESTORATION PRODUCTS

TECHNICAL DATA SHEET (TDS)

DH-9 HIGH SOLIDS – Premium Lithium Densifier & Hardener

PRODUCT DESCRIPTION

DH-9 HIGH SOLIDS is a proprietary, penetrating lithium-based concrete densifier and hardener designed to increase surface density, durability, and abrasion resistance. Formulated with advanced wetting technology, DH-9 HIGH SOLIDS improves penetration and uniformity while helping reduce dusting and enhancing overall concrete performance.

FEATURES & BENEFITS

- Lithium-based for improved durability and reduced alkali reactivity
- Enhanced wetting for better penetration and uniform application
- Helps reduce surface porosity
- Premium lithium silicate chemistry
- Deep penetration and fast reaction
- Excellent densification and abrasion resistance
- Reduces dusting and increases surface hardness
- No whitening, no film, no surface residue
- Ideal for polished concrete systems
- VOC-free, non-flammable, odorless
- Interior and exterior applications

TYPICAL APPLICATIONS

- Concrete floors and slabs
- Warehouses and distribution centers
- Polished concrete systems
- Restoration and maintenance projects

RECOMMENDED USE

- Medium to hard concrete floors and slabs
- Retail, commercial, and industrial floors
- High traffic environments
- New or existing concrete
- Not recommended for:
    - Very soft or highly porous concrete
    - Burnished or extremely dense surfaces with no absorption
    - Decorative colored concrete without testing

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CONCRETE HARDNESS (MOHS SCALE)

- Recommended: Mohs 5–8
- Use With Caution: Mohs 4
- Not Recommended: Mohs 2–3

TECHNICAL DATA

Property	**Typical Value**
Appearance	Clear to slightly hazy liquid
Odor	Mild
pH	10.5 – 12.5
Specific Gravity	~1.10 – 1.12
VOC Content	0 g/L
Solubility	Water soluble
Active Content	14.5-15.0%
Total Solids	14.5-15.0%
Relative Density	1.18-1.20
Freeze Point	32°F (0°C)

COVERAGE RATE

300 – 900 sq ft per gallon, depending on surface porosity and condition

Coverage varies with porosity:

- Medium concrete: 300–500 sq ft/gal
- Medium-hard concrete: 400–700 sq ft/gal
- Hard concrete: 600–900 sq ft/gal

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
- Test surface absorbency with water. Surface should wet uniformly before application

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APPLICATION INSTRUCTIONS

1. ALWAYS TEST a small area to confirm suitability, coverage rate, and performance prior to full application
2. Apply using **low-pressure sprayer** and **microfiber pad**
3. Saturate surface evenly — **do not puddle**
4. Keep surface wet for **10–20 minutes**
5. Reapply to dry areas during dwell time
6. Allow product to penetrate
7. **Do not allow excess material to dry on surface**
8. Remove residue and allow to cure

DRY AND CURE TIMES

- Dry to touch: 30–60 minutes
- Light traffic: 2–4 hours
- Polishing may resume: 1–2 hours
- Full cure: 24 hours
- Surface hardness increases over time with use and maintenance
- Water resistance improves over 3–7 days

POLISHING INTEGRATION

Recommended application window (Lithium-specific):

- 200–400 grit resin for most premium polishing systems

Hard/dense concrete:

- 400-800 grit resin

Ultra-Hard, low absorption slabs:

- 800-1500 grit resin (test first)

Notes:

- Lithium reacts slower and cleaner at higher grits
- Applying too early (metal stages) can over-harden the floor and fight the diamonds
- Higher-grit application produces a clearer, brighter final polish

⚠ IMPORTANT APPLICATION NOTES

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

LIMITATIONS

- Not for use on sealed or non-porous surfaces
- May affect adhesion of coatings
- Always perform adhesion testing prior to coating application

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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, 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
- Ingestion: Seek medical attention

DISPOSAL

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

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.