CONCRETE RESTORATION PRODUCTS

TECHNICAL DATA SHEET (TDS)

DH-4 – Sodium Hybrid Concrete Densifier

PRODUCT DESCRIPTION

DH-4 is a proprietary, penetrating concrete treatment designed to **densify, harden, and improve moisture resistance** of concrete surfaces. This hybrid technology enhances surface performance while maintaining deep penetration into the substrate.

FEATURES & BENEFITS

- Penetrating, non-film forming treatment
- Deep densification on porous and semi-porous concrete
- Increases surface hardness and durability
- Reduces dusting and surface wear
- Improves resistance to moisture intrusion
- Enhances gloss development during polishing
- Interior and exterior applications
- Ideal for older, weathered, or absorbent slabs
- Compatible with polished concrete systems

IDEAL APPLICATIONS

- Soft to medium concrete (Mohs 2–6)
- Porous or semi-porous interior floors
- Warehouses, retail, commercial, industrial
- Exterior flatwork, sidewalks, plazas
- Older or weathered concrete
- Polished concrete up to medium hardness
- Not recommended for:
    - Steel-troweled concrete
    - Burnished surfaces
    - Very hard or extremely dense concrete (Mohs 7–9+)
    - Surfaces with minimal absorption

CONCRETE HARDNESS (MOHS SCALE)

- Recommended: Mohs 2–6
- Use With Caution: Mohs 6–7 (test absorption)
- Not Recommended: Mohs 7–9+, steel-troweled, burnished

CONCRETE RESTORATION PRODUCTS

TECHNICAL DATA

Property	Typical Value
Appearance	Clear to slightly hazy liquid
Odor	Mild
pH	11.5 – 13.0
Specific Gravity	~1.08 – 1.12
VOC Content	0 g/L
Solubility	Water soluble
Active Content	16.8-17.5%
Total Solids	16.8-17.5%
Relative Density	1.10-1.15
Freeze Point	32°F (0°C)

COVERAGE RATE

200–500 sq ft per gallon, depending on surface porosity and condition

Coverage varies with porosity:

- Soft / very porous concrete: 200–300 sq ft/gal
- Medium concrete: 300–500 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

APPLICATION INSTRUCTIONS

1. Apply using **low-pressure sprayer** and **microfiber pad**
2. Saturate surface evenly — **do not puddle**
3. Keep surface wet for **10–20 minutes**
4. Reapply to dry areas during dwell time
5. Allow product to penetrate
6. **Do not allow excess material to dry on surface**
7. Remove residue and allow to cure before polishing

DRY AND CURE TIMES

- Dry to touch: 30–60 minutes
- Light traffic: 2–4 hours
- Full cure: 24 hours
- May resume polishing after 2 hours

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POLISHING PROCESS INTEGRATION

- Soft (Mohs 2–4): Apply at 80–100 grit
- Medium (Mohs 4–6): Apply at 100–200 grit
- Medium-Hard (Mohs 6–7): Apply at 200 grit only if absorption is confirmed
- Very Hard (Mohs 7–9+): Not recommended

⚠ IMPORTANT APPLICATION NOTES

- DO NOT OVERAPPLY
- Do not apply on tight or low-porosity surfaces.
- 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 or overlays
- Always perform adhesion testing prior to coating 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: **24 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

CONCRETE RESTORATION PRODUCTS

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.