

FlexSeal™

DuraShield™

Floor Hardener and Densifier



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**Technical
Data Sheet**

Product Description

DuraShield Floor Hardener and Densifier is a blend of inorganic polymer materials that penetrates slab concrete to increase surface density and hardness. Utilizing a proprietary and "green" manufacturing process, DuraShield Floor Hardener and Densifier's unique formulation of uniform, concentrated, nano-sized particles, suspended in an ultra low surface tension liquid, penetrates deeply into concrete surfaces bonding with the cement components of the slab.

DuraShield Floor Hardener and Densifier makes an extremely hard, dense floor surface that has increased wear resistance to foot and fork lift traffic. It is water based and environmentally friendly and is VOC compliant.

Primary Applications

- Interior or exterior concrete
- Warehouses/Distribution center floors
- Manufacturing plants
- Medical and Research
- Residential garages and floors
- Commercial floors

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Features/Benefits

- Fills porosity/capillaries of concrete creating a permanent bond that makes floors and walls harder, less prone to dusting and absorption of most liquids.
- Meets all VOC regulations including California
- Meets LEED qualifying standards
- Resists penetration of many liquids including oils and many chemicals
- Helps minimize many rubber tire marks in warehouse applications
- Application equipment may be cleaned with water
- Will not discolor or blush over time
- Not affected by bond breaker systems when used as directed
- Will not leave a white cast on floor if over used or not removed
- Reduces operating costs by increased ease of maintenance and cleaning

Packaging

- 5 gallon pails (19L)
- 55 gallon drums (209L)

Technical Information

- Appearance.....clear tinted liquid
- Drying Time.....20 min to 1 hour
- VOC Content.....0 g/l
- Total Solids.....30%
- Active Ingredients.....100% of total solids
- pH8.5 - 9
- Freeze point..... 32°F
- Slip Resistance.....does not change floor friction coefficient
- Shelf Life..... 1 year
- Coverage..... 500 sq. ft. / gal



Application / Directions

DuraShield Floor Hardener and Densifier has two primary methods of application. The first method is designed for application while the slab is still green just after final trowel. The second is designed for use with existing or cured concrete.

Clean Up

Clean tools and equipment with water immediately after use. Residue from application and clean-up is non-toxic. Protect metals, glass, wood, paint or brick from contact with DuraShield Floor Hardener and Densifier. If surface is accidentally over sprayed, wash immediately with potable water.

Maintenance

Routine sweeping, mopping and periodic mechanical scrubbing with a neutral pH, non-rinsing cleaner or water is needed. We recommend using neutral pH cleaner for all cleaning regimes. Avoid any acidic cleaners. Acidic cleaners may etch the surface over time and cause a dulling of the finish. No aggressive scrubbing brushes such as straogrit, nylogrit or other aggressive scrubbing brush should be used. Avoid detergents containing hydroxides or sulfates.

Existing Concrete

DuraShield Floor Hardener and Densifier can be applied to concrete of any age. Surface must be clean and structurally sound. Surface also must be clear of membrane forming curing compounds, sealers, oils, dust and other surface contaminants. For best results use a black scrubbing pad with neutral pH cleaner. If more aggressive surface preparation is needed to remove surface contaminants, 60-100 grit sanding screens can be used. A thorough cleaning is needed after additional scrubbing.

Diamond grinding/polishing to an 800 grit finish with DuraShield Floor Hardener and Densifier, will provide the most durable and stain resistant floor surface.

Use a low pressure sprayer to apply DuraShield Floor Hardener and Densifier to form an even sheen across surface to ensure complete saturation of surface. Apply enough DuraShield Floor Hardener and Densifier to keep the surface wet for 15 to 20 minutes. Let surface dry 1 hour before heavy traffic. Cambridge Paints Inc. | 252-0531 | 1370 Jose Abad Santos Ave., cor. La Torre St., Tondo, Metro Manila | www.cambridge.com

Warranty

When applied as directed, DuraShield Floor Hardener and Densifier will reduce abrasion and wear to the surface of the concrete. Regular sweeping and cleaning of the concrete surface with a neutral pH cleaner will maintain its performance and increases longevity. If applied by a certified applicator, Cambridge Paints Inc. warranties DuraShield Floor Hardener and Densifier to penetrate and chemically strengthen the surface of concrete to reduce dusting for 5 years. This warranty does not cover incidental or consequential damages nor does it cover failure of mix design, penetrating curing compounds, cracking or conditions that are a result of poor concrete finishing. Damage from faulty maintenance procedures or accidental damage to the slab is not covered.

New Concrete (Green)

DuraShield Floor Hardener and Densifier may be applied to newly installed concrete after final trowel while slab is still Green. Slab must be clean and free of all materials such as curing compounds, bond breakers, form release oils or construction dust and debris, etc. Use a low pressure sprayer to achieve a consistent, even application and to ensure consistent coverage of the surface. Reapply as necessary to keep surface wet for 20 minutes. Let surface dry. No cleaning, flooding, neutralizing or rinsing is necessary. If curing agent is to be applied, it can now be applied over dried application of DuraShield Floor Hardener and Densifier.