



# TK-FLOOR HARDENER & DENSIFIER 5329

Item No. TK-5329

## PRODUCT DESCRIPTION

TK-FLOOR HARDENER & DENSIFIER 5329 is a colorless, odorless blend of 100% active sodium silicate and silicate to strengthen, harden, densify and dustproof new or existing concrete and masonry floors. It penetrates into the concrete, sealing the pores and capillaries and creating a chemical reaction within the concrete to produce a hard mineral film that is resistant to water, chemicals and abrasion.

### Features:

- Increases the strength of the surface by filling the pores - decreasing porosity while increasing density.
- Treated surfaces have higher resistance against water, chemicals and abrasion and require less maintenance and up-keep.
- Creates a breathable surface for passage of moisture vapor.
- Contains no solvents or fumes, is non-toxic, non-combustible and complies with all VOC regulations.
- Does not leave a film and will not make surfaces slippery.
- Short downtime; floors can be put back into service immediately after application.
- Compatible with floor and carpeting adhesives and most stripping paints.

### USES:

Suitable for interior use on concrete floors and surfaces in industrial, warehousing, manufacturing and food service environments. Its odorless formulation makes it ideal for enclosed, inhabited areas where solvent-containing systems may be hazardous to use.

## APPLICATION PROCEDURES

### PREPARATION:

The surface must be clean and free of dirt, oil, curing compounds or foreign materials. Patch all cracks and remove any laitance. Any cleaners must be thoroughly rinsed off and allowed to dry. Although the surface may be damp at the time of application, it must not contain standing water as this will dilute TK-FLOOR HARDENER & DENSIFIER 5329 and will negatively affect its performance.

*New Concrete Preparation* - New concrete must be allowed a minimum of 7 days curing before applying this product. Recommended methods of curing are via water curing or by covering the surface with poly. Curing may be accomplished using TK-DC WB DISSIPATING CURING COMPOUND 2519\*, however application instructions must be followed precisely to ensure complete removal of the curing resin.

### APPLICATION:

TK-FLOOR HARDENER & DENSIFIER 5329 may be applied by sprayer, roller or brush. Work the product into the surface using a soft bristle brush or scrub pad. To increase the effectiveness of the product, use a mechanical scrubber. Continue working until the product begins to gel or become slippery, then re-wet the surface and work for another 10-15 minutes. As the surface gels or becomes slippery again, flush with water and squeegee the surface dry. Finally, wait 30 minutes, then flush the surface once more with fresh water and squeegee dry.

**APPLICATION NOTE:** In order for the proper reaction to occur, the surface must remain saturated for a minimum of 30 minutes. Very porous or open concrete surfaces may result in faster drying. If this occurs, you must apply additional TK-FLOOR HARDENER & DENSIFIER 5329 to the surface and leave on for the full 30 minutes.

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## TECHNICAL DATA

|                       |   |
|-----------------------|---|
| V.O.C. Content:       | 0 g/L   |
| A.I.M. Category:      | Sealers<br>Maximum VOC 400 g/l                                    |
| Applicable Standards: | USDA authorization for use in meat and poultry processing plants. |

## TESTING DATA

|                          | Test Method | Results   |
|--------------------------|-------------|---|
| Impact Resistance:       | ASTM C42    | Increases resistance  |
| Abrasion Resistance:     | ASTM C779   | 33% increase in resistance  |
| Hardening:               | ASTM C39    | 42% increase in compressive strength at 7 days. 39% increase at 28 days over untreated samples.     |
| Coefficient of Friction: | ASTM C1028  | 0.69 wet / 0.86 dry   |
| Bonding Adhesion:        | ASTM D3359  | 16.7% increase in epoxy adhesion. No change in polyurethane adhesion.                               |
| Light Exposure:          | ASTM G23    | No effect by ultra violet light or water spray exposure.  |
| Curing:                  | N/A         | Provides greater moisture retention during the initial 24 hour curing period vs. untreated samples. |
| Permeability:            | N/A         | Coating is breathable and will allow moisture vapor to pass through treated surfaces.               |

**COVERAGE:**

| Surface                  | Coverage             |
|--------------------------|----------------------|
| Steel troweled concrete: | 200 sq.ft./gal       |
| Other concrete surfaces: | 200 - 250 sq.ft./gal |

Coverage rates are provided as a guideline only. Many factors including surface texture, porosity and weather conditions will determine actual coverage rates.

**LIMITATIONS:**

- Do not apply when ambient or substrate temperatures are below 32°F.
- Product may freeze but must be allowed to thaw completely before use.
- Over-application may cause discoloration or a white haze to develop.
- Brush out all puddles to prevent formulation of white residue.
- Protect surrounding metal, glass, wood, brick and painted surfaces.

**PROTECTION OF VEGETATION, GLASS AND ALUMINUM SURFACES:**

Avoid contact with live vegetation, glass and aluminum. If properly protecting these surfaces is impractical, the following steps should be performed:

- 1) Minimize contact of TK-FLOOR HARDENER & DENSIFIER 5329 with live vegetation, glass and aluminum surfaces.
- 2) If TK-FLOOR HARDENER & DENSIFIER 5329 comes into contact with glass or aluminum, thoroughly clean surfaces with Windex® or an ammonia cleaner while the material is still wet.

**MAINTENANCE:**

Use normal dust mopping or sweeping between occasional detergent and water cleansings.

**FIRST AID:**

- Consult this product’s safety data sheet for additional health and safety information. Safety Data Sheets are available through TK distributors, the TK office and the TK website.

**AVAILABILITY:**

TK-FLOOR HARDENER & DENSIFIER 5329 is available through TK Distributors. Contact TK Products for the nearest distributor. Packaged in 55-gallon drums, 5-gallon pails and 1-gallon cans.

FOR PROFESSIONAL USE ONLY

**NOTES:**

\*TK-DCWB DISSIPATING CURING COMPOUND 2519 must be purchased separately

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