



**PRODUCTS**

Division of Sierra Corporation

# TK-1835 SILHARD

Meets Federal EPA's VOC Requirements

## Technical Data



**PRODUCTS**  
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Concrete Chemical Floor Hardener

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### 1. PRODUCT NAME:

TK-1835 SILHARD  
Sodium Silicate Concrete  
Compound

### 2. MANUFACTURER

TK PRODUCTS, DIVISION  
OF SIERRA CORPORATION  
11400 West 47th Street  
Minnetonka, MN 55343  
952-938-7223  
952-938-8084 (FAX)  
E-mail: tkproduct@AOL.com  
Website: http://www.tkproduct.com

### 3. PRODUCT DESCRIPTION:

TK-1835 SILHARD is a sodium silicate concrete curing, hardening and sealing agent which works through an inner reaction with the free lime and calcium carbonate, present in concrete, to form a hard mineral coating within the upper surface pores. Moisture within the fresh concrete is trapped and retained in the slab aiding in the curing process and guaranteeing a hard, dustproof surface.

On existing concrete, the inner chemical reaction forms a hard-wearing, tight surface.

#### Basic Uses:

TK-1835 SILHARD IS USED ON INTERIOR AND EXTERIOR CONCRETE WORK, BOTH VERTICAL AND HORIZONTAL. The material is odor-free and is specified and used in enclosed, inhabited areas where solvent odors can be hazardous, or lingering odors cannot be tolerated; i.e., public buildings, housing, food processing and storage plants, or in any unventilated areas. TK-1835 SILHARD is clear, non-staining, does not discolor. Specified for use on architectural concrete and for light to moderately heavy duty concrete surfaces.

#### Installations:

Manufacturing and warehousing, food processing and storage plants, private and public housing, shopping centers, business centers, medical centers.

### 4. TECHNICAL DATA:

#### Composition and Materials:

Sodium silicate crystals in a water dispersion.

#### Specifications:

Formulated to meet ASTM Standards. Dry Time; One to three hours, depending upon temperature, wind velocity and humidity. Compatible with most tile and floor covering adhesives.

-VOC Compliant

-Category: Sealers

-AIM Definition: A coating formulated and recommended for application to a substrate for one or more of the following purposes: to prevent subsequent coatings from being absorbed by the substrate; to prevent harm to subsequent coatings by materials in the substrate; to block stains, odors, or efflorescence; to seal fire, smoke, or water damage; or to condition chalky surfaces.

-VOC content limit: 400 grams per liter

### 5. APPLICATION PROCEDURES AND INSTRUCTIONS

#### Surface Preparation:

*Freshly Placed Concrete:* Broom or trowel finish, allow surface water to dissipate and dry until surface will support weight of the crewmen. *Existing Concrete:* Remove all foreign matter (oil, grease, dirt, and dust), repair damaged areas.

#### METHOD:

Compound is ready to use; apply with power or hand sprayer, longnap applicator, paint roller, soft bristled broom or squeegee. Saturate to point of full porosity without leaving puddles. Brush out drips or runs. Treat uncovered surfaces when form stripping is removed.

#### COVERAGE RATES:

Rough/Broom/Porous Surfaces:  
200 – 300 SFPG

Steel Troweled/Dense Surfaces:  
300 SFPG

### LIMITATIONS:

Apply in temperatures above 32° F. Protect product from freezing. If freezing occurs, allow to thaw; stir or agitate before using; do not use if settling continues. In interior, unvented areas with high humidity, over saturation may occur causing the material to remain wet. To prevent this, apply at 600 sq. ft./gal.

#### Precautions:

Protect metal, glass, wood, paint, and brick surfaces. Wash with clear water if contact or overlapping occurs. Avoid over-application on single coats.

#### Maintenance:

Use normal dust mopping or sweeping between occasional detergent and water cleaning. Recoats easily.

#### First Aid:

*Ingestion:* Induce vomiting, drink large amounts of water, milk or fruit juice. CALL PHYSICIAN IMMEDIATELY. *Skin or Eye Contact:* Flush immediately with clear water for 15 minutes. CALL PHYSICIAN. Remove wet garments at once.

### 6. AVAILABILITY:

TK-1835 Silhard is packaged in 5 and 55 gallon containers and is available through TK Distributors.

### 7. LIMITED WARRANTY

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#### **8. TECHNICAL SERVICES**

The TK office offers assistance with specifications, performance test data and field services.

#### **9. FILING SYSTEMS**

Information Handling Services  
PO BOX 1213  
Englewood, CO 80150  
Information Marketing Services  
13271 Northend  
Oak Park, MI 48237

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