



Division of Sierra Corporation
ISO 9001:2008 Certified

TK-1311 WB SILANE CONCENTRATE

Meets Federal EPA's VOC Requirements

Technical Data

1. PRODUCT NAME

TK-1311 WATER BASED SILANE
CONCENTRATE CONCRETE
SEALER

2. MANUFACTURER

TK PRODUCTS
DIVISION OF SIERRA CORPORATION
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Minnetonka, MN 55343
952-938-7223
952-938-8084 (FAX)
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3. PRODUCT DESCRIPTION

TK-1311 WB is a concentrate based on oligomeric alkoxysilanes and siloxanes which when mixed with water produce micro emulsions. In diluted form, it is used to seal and impart water repellency to absorbent mineral building materials.

5. APPLICATION PROCEDURES AND INSTRUCTIONS

SURFACE PREPARATION:

Substrate to be sealed should be clean and dry.

APPLICATION:

Prepare emulsion by adding 5 gallons TK-1311 WB to 45 gallons water in open head agitator drum. Stir for 2 to 3 minutes. Diluted with water, TK-1311 WB should be used on the day on which it has been diluted.

COVERAGE:

TK-1311 WB should be applied uniformly at the rate of 150 square feet per gallon. Coverage rates will vary with surface texture, porosity, weather conditions, etc. A test panel mock-up should be applied prior to project start-up to determine coverage rates and appearance.

LIMITATIONS

- Do not apply to wet or frozen substrates.
- Do not apply when ambient air temperature is below 40°F.
- Do not apply when rain or snow are forecasted or expected before silane has cured.

FIRST AID

Ingestion: If swallowed, give several glasses of water, but do not induce vomiting. If vomiting does occur, give fluids again; call physician immediately. *Eye Contact:* Do not rub, flush with clean water for 15 minutes. *Skin Contact:* Remove by washing thoroughly with soap and water. If eye or skin irritation continues, obtain medical assistance.

TK-1311 WB SILANE CONCENTRATE
Water Repellent Concrete Sealer



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| 4. Technical Data | | | | |
|---|--|---------------|-------------|---|
| Test Method | | Concentration | Coverage | Performance |
| NCHRP 244 Report Series II | Reduction in Water Absorption Reduction in Chloride Ion Content Water Vapor Transmission | 17.5% | 125 sq. ft. | 80% 83% 100% |
| NCHRP 244 Report Series IV, Southern Exposure | Accelerated Weathering Test: Resistance to UV Light Reduction in Soluble Chloride | 17.5% | 125 sq. ft. | -No Discoloration -96% Reduction in Soluble Chloride |
| ASTM E 514-86 | Water Penetration and Leakage Through Masonry | 10% | 125 sq. ft. | 86% Reduction in Leakage Rate |
| ASTM C-672 | Scaling Resistance | 10% | 125 sq. ft. | 50 cycles |
| Federal Specification SSW-110C | Water Repellency (1.0% max specified) | 15% | | .3% Water Absorption |
| EPA 24 ASTM D3960/D5095 | Volatile Organic Content (VOC) | 17.5% | N/A | 2.37 lbs./gal 284g/l |
| -A.I.M. Category - Waterproofing Sealer and Treatment - maximum VOC 600 g/l. | | | | |
| -A.I.M. Definition: TK-1311 WB Silane Concentrate is a coating formulated and recommended for application to a porous substrate for the primary purpose of preventing the penetration of water. | | | | |

6. AVAILABILITY

TK-1311 WB is available through TK distributors. Contact TK Products for the nearest distributor. Packaged in 5 and 1-gallon containers.

7. CONDITIONS OF SALE/ 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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The person(s) specifying or requesting the use of these products is responsible for assuring their suitability for a specific use, as well as the proper application of the products. Where there is any question as to the suitability of a particular product, a small test patch is recommended. See also CONDITIONS OF SALE/ LIMITED WARRANTY (Section 7) above.

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07/11