

TK-290 FINAL SEAL

Meets Federal EPA's VOC Requirements



Division of Sierra Corporation
ISO 9001:2000 Certified

Technical Data

1. PRODUCT NAME

TK-290 FINAL SEAL

2. MANUFACTURER
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3. PRODUCT DESCRIPTION
TK-290 FINAL SEAL is an aromatic solvent version of TK-290 TRI-SILOXANE. It is ready-to-use, colorless, breathable, non-staining, non-yellowing and deep penetrating. Because of its formulation, TK-290 FINAL SEAL may be applied to concrete that had previously been applied with a cure and seal such as: Achro Seal AS-1, Achro Kure AK-2, TK-26 UV, or Bright Kure and Seal. It should be sprayed and back rolled over the concrete to re-solvate the resin on the surface; penetrating and sealing it off from water and harmful deicers that can cause concrete deterioration.

TK-290 FINAL SEAL is a low viscosity oligomeric organosiloxane concrete water repellent. It achieves maximum hydrolysis under the influence of atmospheric moisture and polymerizes to a polysiloxane which is tack free and hydrophobic in nature. Through this reaction, the siloxane groups are chemically bonded to the concrete; eliminating the moisture that had previously engulfed the cementitious surface. The removal of moisture helps to eliminate damage from spalling, freezing, and rebar corrosion. Therefore, TK-290 FINAL SEAL is chemically bonded within the substrate, not just physically bonded like other surface penetrating sealers.

Basic Uses:
TK-290 FINAL SEAL can be used on any clean, dry, cementitious surface that has previously been applied with a curing or sealing compound. It may be applied on above ground surfaces, both vertical or horizontal.

It helps protect the surface against damaging effects of water intrusion, acid rain, deicing chemicals, freeze/thaw exposure, airborne dirt, smog, industrial fumes, and most other atmospheric chemicals.

Applications Include:
A. Parking structures
B. Concrete Driveways, Sidewalks, Porches, and Patios
C. Concrete Parking Lots
D. Precast concrete
E. Poured concrete walls
F. Natural and synthetic stone

TK-290 FINAL SEAL is not suitable for use on gypsum.

Typical Properties:
TK-290 FINAL SEAL has been carefully designed for use on above grade exterior surfaces and is characterized by the following properties:

- Excellent penetration.
- High alkali resistance.
- Low volatility.
- Dries tack free.
- Provides early water repellency.
- Exhibits droplet effect.
- Suitable for alkaline & neutral substrates

Limitations:
TK-290 FINAL SEAL should not be used below grade or under hydrostatic pressure. A test patch should always be applied to determine compatibility with the sealed substrate and to assess application coverage rate. Do not apply if rain is expected within 4-6 hours of application.

4. TECHNICAL DATA
-Density: 6.72 lbs.
-Flash Point: 76°F.
-Passes: NCHRP 244 for:
·Water absorption
·% Water vapor transmission
·% Reduction in chloride intrusion

- ASTM C-666 Relative dynamic modulus of elasticity.
- ASTM C-672 Scaling resistance 75 cycle is a +0 rating.
- AASHTO T259 – Resistance of Concrete to Chloride Ion Penetration
- Test Results given upon request.

-A.I.M. Category: Waterproofing Sealer and Treatment - maximum VOC 600g/l. This product exceeds the maximum VOC limit. There will be an EPA exceedance fee charged at the time of purchase.
-A.I.M. Definition: A coating formulated and recommended for application to a porous substrate for the primary purpose of preventing the penetration of water.

5. APPLICATION PROCEDURES AND INSTRUCTIONS

Surface Preparations:
All surfaces to be treated must be clean and structurally sound. Thoroughly cleanse the surface(s) to remove all grease, oil, form oils or other contaminants.

Old Concrete:
Remove unsound concrete and repair deteriorated areas and cracks. Surfaces may need to be mechanically abraded to get maximum penetration.

New Concrete:
Concrete that has a curing and sealing compound should be allowed to properly cure (lighten up in color). As a standard procedure, fresh concrete should be allowed to thoroughly cure before applying TK-290 FINAL SEAL.

Best results are obtained by applying TK-290 FINAL SEAL on dry substrates. A test patch should be applied to determine proper results and coverage rates.

Application:
TK-290 FINAL SEAL should be used as packed; no diluting is necessary. To insure the surface is frost free, it is recommended that the substrate surface temperature be 40°F or above. TK-290 FINAL SEAL may be sprayed and back rolled or applied by roller.

TK-290 FINAL SEAL
Concrete and Masonry Water Repellent

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Continue back rolling until the concrete has a wet look. The cure and seal that has been re-solvated on the surface should be evenly spread out by the roller.

Apply TK-290 FINAL SEAL to the surface in a uniform manner and in sufficient quantity to completely wet out the substrate. Any pools that accumulate on the surface after 5 minutes should be rolled out. Any dry areas that accumulate after 5 minutes should receive an additional light coat.

Coverage Rate*:

Recommended coverage rate for TK-290 FINAL SEAL is 150 square feet per gallon on most concrete substrates. Very porous surfaces may require two coats of TK-290 FINAL SEAL.

TK-290 FINAL SEAL

Surface Type	Sq.Ft./Gallon
Concrete Drive-ways, Sidewalks, Patios	150-250
Bridge Decks/ Ramps	100-200
Smooth Concrete	125-225
Exposed Aggregate	100-200
Concrete Block	50-100
Brick/Stone	60-200

*Coverage rates are provided as a guideline only. The texture and absorption characteristics of the surface will determine actual coverage rates. Concrete should stay wet with product for 5 minutes or spray more in the lightly covered areas.

Clean Up:

Clean up tools with TK-00 solvent or xylene.

Precautions:

TK-290 FINAL SEAL will react with water vapor. To insure maximum effectiveness, keep containers tightly sealed when not in use. DO NOT use or store near heat or open flames. All safety precautions must be adhered to at all times. Only apply in well ventilated areas. Do not smoke in the area and turn off all pilot lights. Wear protective goggles, gloves and respirators.

Maintenance:

If wear patterns do occur TK-290 FINAL SEAL can be reapplied to the affected area.

First Aid:

Inhalation: Relocate person to fresh air, give artificial respiration if not breathing. GET MEDICAL HELP. *Eye and Skin Contact:* Wash with large quantities of clean water for 15 minutes. *Ingestion:* Do not induce vomiting. GET MEDICAL HELP. Use with adequate ventilation.

6. AVAILABILITY

TK-290 FINAL SEAL is available through TK Distributors. Contact TK Products for the nearest distributor.

Packaged in: 55-gallon drums, 5-gallon pails, and one gallon cans.

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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9/08