

TK-6100 CONCRETE FORM SURFACE RETARDER

Meets Federal EPA's VOC Requirements



PRODUCTS

Division of Sierra Corporation

Technical Data

TK-6100 CONCRETE FORM SURFACE RETARDER
Concrete Form Surface Retarder

PRODUCTS
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1. PRODUCT NAME:

TK-6100 CONCRETE FORM SURFACE RETARDER

2. MANUFACTURER

TK PRODUCTS, DIVISION
OF SIERRA CORPORATION
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Minnetonka, MN 55343
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E-mail: tkproduct@AOL.com
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3. PRODUCT DESCRIPTION:

TK-6100 CONCRETE FORM SURFACE RETARDER is a water based, in-form cement set retarder. TK-6100 dries quickly and when dry, forms a hard film, scuff resistant surface. TK-6100 is designed to etch concrete 1/8 to 3/16 inch. TK-6100 is to be used with concrete with 3/8 to 5/8 inch stone size.

Due to the high concentration of complex inhibitors, TK-6100 may be safely and efficiently used on steel, and on other surfaces including plastic, rubber, elastomeric and styrofoam form liners. The use of standard solvent based in-form retarders significantly reduces the long term reuse of such surfaces, whereas TK-6100 will not.

Uses:

Ornamental Concrete, Patio Block, Steps, and Stoop.

4. TECHNICAL DATA:

Properties:

- Appearance & Odor: Viscous liquid with no odor
- Specific Gravity: 1.03
- Solvent: Water Based
- Flash Point: None
- Drying Time: 15-45 Minutes (depending on temperature and humidity).
- A.I.M. Definition: A mixture of retarding ingredients such as extender pigments, primary pigments, resin, and solvent that

interact chemically with the cement to prevent hardening on the surface where the retarder is applied, allowing the retarded mix of cement and sand at the surface to be washed away to create an exposed aggregate finish.

- TK-6100 is VOC Compliant
- VOC content limit: 780 grams per liter (6.5 pounds per gallon)

5. APPLICATION PROCEDURES AND INSTRUCTIONS

Application:

1. Thoroughly mix contents of retarder container VIGOROUSLY with flat paddle or electric paint mixer. This will assure uniform dispersment of active ingredients. Do not dilute.
2. Apply to form by brush, roller or airless sprayer in a 4-6 mil wet coat. Apply TK-6100 in a uniform FULL-BODY COAT. When brush or roller is used, two thin coats of TK-6100 in opposite directions is recommended. Be sure to allow sufficient drying time between coats. When applying by sprayer, a full-bodied coat will be adequate.
3. Allow TK-6100 to dry thoroughly (approximately 15-45 minutes).
4. Place concrete, vibrate in a timely fashion, do not use the vibrator to move the concrete in the forms for it will cause the coating of retarder to break from the form, and allow to cure. Note: TK-6100 has sufficient heat resistance – up to 140° F.

Finishing:

1. Strip concrete after adequate curing cycle.
2. Matrix removal from concrete can now be easily accomplished by pressure water wash, dry brushing or light sandblasting. For best results, remove matrix about one hour after stripping.
3. Clean forms by scraping off residual retarder and/or matrix

within one hour of stripping to avoid having it harden on the form.

Coverage:

Coverage is approximately 150 – 200 sq. ft./gal.

Limitations:

When concrete is to be dropped into the forms or a vibrator is going to be used, this surface retarder should not be used for the film or the form will break and move with the concrete leaving an uneven exposed surface.

First Aid:

Ingestion: Do not induce vomiting. Dilute by giving large amounts of water and get immediate medical attention.
Inhalation: Remove to fresh air and get medical attention.
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.

6. AVAILABILITY:

TK-6100 CONCRETE FORM SURFACE RETARDER is available in 1, 5, and 55 gallon containers. Contact TK/SIERRA Office for the nearest distributor.

7. LIMITED WARRANTY

TK Products, a division of The Sierra Corporation, warrants that its products conform to their label descriptions, are free from manufacturing defects, and are fit for the ordinary purposes for which such goods are used. Inasmuch as the use of its products by others and other factors affecting product performance are beyond TK Products' control, TK Products does not guarantee the results to be obtained. SHOULD ANY OF ITS PRODUCTS FAIL TO GIVE SATISFACTORY RESULTS, TK PRODUCTS WILL REPLACE THE PRODUCTS OR, AT ITS OPTION, REFUND THE PURCHASE PRICE. THIS IS THE SOLE AND EXCLUSIVE REMEDY FOR ANY FAILURE OF THE PRODUCTS OF TK PRODUCTS TO PERFORM AS



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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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