



PRODUCTS

Division of Sierra Corporation

TRI-LASTIC SMOOTH \ FINE \ MEDIUM

Meets Federal EPA's VOC Requirements

Technical Data



PRODUCTS

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TRI-LASTIC - SMOOTH \ FINE \ MEDIUM
Protective Elastomeric Acrylic Coating

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PRODUCTS
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1. PRODUCT NAME:

TRI-LASTIC
SMOOTH \ FINE \ MEDIUM
TK-5610, TK-5611, TK-5612

2. MANUFACTURER

TK PRODUCTS, DIVISION
OF SIERRA CORPORATION
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3. PRODUCT DESCRIPTION:

TRI-LASTIC is a protective, decorative, elastomeric acrylic coating with high quality 100% acrylic resins for concrete, masonry and stucco. It has excellent elongation and recovery properties.

TRI-LASTIC has excellent resistance to stains, dirt, acid, alkali, air-borne pollutants, mildew, and degradation from freeze/thaw or ultraviolet rays. TRI-LASTIC will bridge hairline cracks and move with the substrate throughout a wide range of temperatures. It forms a film which is water repellent to wind driven rain, but is permeable to water vapor reducing entrapment of moisture vapor in the substrate. TRI-LASTIC contains no plasticizers and will not become hard or brittle through many years of exposure.

Basic Uses:

TRI-LASTIC provides an elastomeric, long-lasting water repellent coating for exterior or interior properly prepared concrete, block, brick, stone, and stucco.

Advantages:

- Superior water repellency.
- Maintains flexibility through multiple weathering cycles.
- Contains no external plasticizers.
- Excellent low temperature flexibility.
- Ideal coating for sealing and waterproofing hairline cracks in stucco or plaster finishes.

- Ideal as a topcoat over TRI-MIX and TRI-MIX PLASTER MIX.
- Average dry time @ 70°F.:
Recoat: 24 hours
Full Cure: 72 hours
- Elongation at Break:
1009% (73°F)
1118% (34°F)
- Moisture Vapor Permeability:
12.8 Perms
- Permeable to water vapor.

4. TECHNICAL DATA:

TRI-LASTIC Smooth

| | |
|----------------------|------------|
| Weight/gal.: | 11.7 lbs. |
| % solids by wt.: | 65 |
| % solids by vol.: | 50 |
| Viscosity (KU) | 130 |
| VOC content: | 38 g/l |
| pH: | 9.5 |
| Flash Point: | none |
| Film Thickness: | wet 15 mil |
| at 100 sq. ft./gal.: | dry 8 mil |

TRI-LASTIC has been formulated to comply with the following specifications:

- ASTM D-412, Elongation and Tensile Strength Test
- E-96, Water Vapor Transmission Test
- D-3274 / D-3273, Fungus and Mildew Resistance Test
- E882, Accelerated Weathering Test
- C-666, Freeze/Thaw Resistance Test
- Federal Specification TT-C-555 B, Wind Driven Rain Test
- A.I.M. Category: Flat Coatings - Exterior
- A.I.M. Definition: A coating that is not defined under any other definition in this section and that registers gloss less than 156 on an 85-degree meter or less than 5 on a 60-degree meter according to the American Society for Testing and Materials (ASTM) Method D523-89, Standard Test Method for Specular Gloss.
- VOC Compliant
- VOC content limit: 250 grams per liter

Coverage:

50 to 125 sq. ft./gal. on concrete, block, brick, and stucco. Smooth surfaces 125 sq. ft./gal. (Wet film thickness of 16-20 mils per coat.) Textured, raked or exposed aggregate surfaces 50 sq. ft./gal. While TRI-LASTIC may be applied in one coat, two coats are recommended (at a film thickness of 16-20 dry mils total) to provide maximum performance. On smooth surfaces for best appearances two coats are recommended instead of one heavy coat. Coverage rate will vary depending on the substrates porosity.

5. APPLICATION PROCEDURES AND INSTRUCTIONS

Preparation:

Remove dust, salt, oil, grease, laitance, efflorescence, mildew, fungus, chalk dust and other contaminants which will affect adhesion. A high pressure water blast should remove most forms of contamination. Unstable masonry or release agents may require the use of abrasive or specialty chemical removal agents. Any method selected should be the least destructive method.

Hairline Cracks: Allow all cracks to dry completely following cleaning procedures. Clean all hairline cracks. A hairline crack is smaller than 1/16". Pretreat with a brush coat of TRI-LASTIC. Smooth over the crack. Fill the crack by working it into the crack. **Larger Cracks:** Cracks larger than 1/16" which are non moving should be cleaned and pretreated with TRI-LASTIC and filled with TRI-LASTIC Knife Grade. **Moving Cracks:** Prepare the crack to be filled with a joint sealant and follow the instructions of the joint sealant manufacturer. **Chalky Surfaces:** Excessively chalky surfaces may require a second cleaning. Should surface still show chalkiness, a fog coat of TK-225 (diluted a minimum of 3:1) must be applied to insure adhesion.

Mixing:

Stir with low speed mixer to produce color uniformity, proper aggregate distribution (texture materials only) and to limit air entrapment. Multiple pail applications should be mixed together or "boxed" to ensure color uniformity throughout the application.

Application:

On surfaces where 100% of previous film chalk cannot be removed then a fog coat of TK-225 (diluted a minimum of 3:1) must be applied so as not to produce a high gloss film. This application is not intended to be used as a substitute for proper cleaning procedures, but as a precautionary measure on marginal acceptable surfaces. Pretreat all cracks. Allow to dry. On all substrates a minimum of 16 mils of dry film thickness is required. An application of 50 sq. ft. per gallon will give a minimum dry film of 16 mil. *Roller Application:* Use a 1 1/4 to 1 1/2 nap quality roller cover. Completely saturate the roller and keep the roller loaded with the coating to build the required mils. Only use a dry roller for touch up work, TRI-LASTIC is formulated to allow proper working time to avoid lap marks, and the viscosity to build the required mils in one coat. *Spray Application:* Apply by a airless sprayer. Gun tip size of 0.027 - 0.032. On porous substrates, if pinholing appears this is an indication of entrapped air and back rolling will be necessary to remedy this problem. TRI-LASTIC Smooth and Fine may be applied by brush, roller or spray. For TRI-LASTIC Medium only spray is recommended. Always work to a wet edge during application. For consistency keep application strokes uniform to ensure uniformity throughout. Stroke variations will produce texture variations.

Dry Time:

24 hours at 74°F. and 50% relative humidity. Lower temperature and high relative humidity can extend the drying time.

Limitations:

Do not apply TRI-LASTIC over uncured concrete and stucco. Do not apply over frost. Do not apply to traffic surfaces. Field tinting of TRI-LASTIC is not recommended. Do not apply if temperature is 45°F. or below or if the temperature is expected to fall below 45°F. within 24 hours after application. Do not apply if rain is expected within 24 hours of application, or during high humidity conditions. Do not apply to wet or damp substrates. Always finish with roller in same direction to avoid light/dark shading of TRI-LASTIC. Always work to break point (i.e.: control joint, mortar joint, corner, etc.) before stopping. Stopping and starting in the middle of a wall or panel may produce lap marks. Do not apply to improperly sealed substrates which are subject to migration moisture. Maximum allowable moisture content is 17%.

Clean Up:

All equipment may be cleaned with a mild detergent and water solution.

Safety Precautions:

May cause skin and eye irritation. If contact occurs flush affected area with plenty of water. Call a doctor. Do not take internally. If ingested, give water or milk and induce vomiting if victim is conscious and not drowsy. Consult a doctor. Use only with adequate ventilation.

6. AVAILABILITY:

TRI-LASTIC is available in three grades of texture: Smooth, Fine or Medium. Packaged ready to use in 5 or 55 gallon containers.

Custom colors are available upon request. Please submit color standards for pricing. Contact TK Products 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

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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
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13271 Northend
Oak Park, MI 48237

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