



# PRODUCTS

Division of Sierra Corporation

# TRI-CON SYSTEM

Meets Federal EPA's VOC Requirements

## Technical Data



PRODUCTS  
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TRI-CON SYSTEM

Tri-Mix - Tri-Acyl 30 - Tri-Sheen

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**1. PRODUCT NAME:**  
TRI-CON SYSTEM

**2. MANUFACTURER**  
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OF SIERRA CORPORATION  
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**3. PRODUCT DESCRIPTION:**  
TRI-CON SYSTEM is a three part package designed to provide a protective, textured color coating on concrete and masonry surfaces. This system contains a cementitious concrete surfacer, an acrylic bonding agent for improved bonding, adhesion and mechanical properties, and a 100% masonry acrylic coating. The TRI-CON SYSTEM eliminates the rubbing process on vertical concrete and fills the "bug eyes" left in poured concrete.

These three parts are:

**TRI-MIX:** A dry cementitious concrete surfacer, designed to texturize, seal, waterproof and color when used with the TRI-CON SYSTEM; adds more resistance to chemical and freeze/thaw attack. The mixture has a high viscosity which carries the coating into pores, cracks and voids, bonds permanently to the surface creating a dense, durable and attractive surface; resists salt spray penetration into bridge supports and parapets, and reinforcing rods. TRI-MIX is available in standard pearl gray and Fed. Spec. 37150 (Tan); special colors are available upon request.

**TRI-ACRYL-30:** 100% acrylic polymers in a water dispersion; blended into the TRI-MIX to improve adhesion, cohesion and durability characteristics, and chemical resistance. TRI-ACRYL-30 can also be used as a tack coat.

**TRI-SHEEN:** A 100% acrylic masonry coating for concrete and masonry work. The coating will allow the treated surface to breathe and resist mildew and fungus growths. The film is flexible, does not peel or crack; resists stains, dirt and color fading caused by exposure to ultra-violet light. Can be used alone as a masonry paint in accordance with MNDOT 2401.3 (colors, paint and surface finisher).

The combination of these products produces a coating that can be used on concrete, masonry, brick, block and stucco. These materials are non-combustible, dry quickly, have very low toxicity, no unpleasant odor, and clean easily with soap and water.

**Installations:**  
TRI-CON SYSTEM is used on bridge supports and parapets, walls, reservoirs, tunnels, basements, and for resurfacing, patching and reconstruction of vertical surfaces.

**Limitations:**  
TRI-ACRYL-30: Protect from freezing; if freezing occurs, allow material to return to room temperature slowly. Bonding qualities are not affected if the material can be stirred. Do not apply blended mix over frozen or frosty surfaces or in temperatures below 40°F.; hot surfaces should be dampened with clear water.

**TRI-SHEEN:** Protect from freezing. Do not apply over frozen or frosty surfaces or in temperatures below 40°F.

**4. TECHNICAL DATA**  
TRI-CON SYSTEM has been formulated to comply with the following Specifications:  
**TRI-MIX:** ASTM C-109, C-190, C-348, C-67, C-666  
**TRI-ACRYL-30:** ASTM 0-109, C-190, 0-348, 0-666, MNDOT 2401.3  
**TRI-SHEEN:** ASTM E-196, FS 37-150 (color tan), MNDOT Concrete Manual S-694.182, MNDOT 2401.3F (ordinary or special surface)  
**TRI-CON SYSTEM** MNDOT 5694.182 (special surface finish).

**5. APPLICATION PROCEDURES AND INSTRUCTIONS**  
**TRI-CON SYSTEM:**  
**Coverage:**  
Concrete, approximately 5-7 bs./9 sq. ft. Masonry or rough concrete, approximately 6-9 lbs./9 sq. ft.

**Preparation:**  
Remove all loose and or crumbled laitance and dust from work area. Grease, oil and other stains, and form release agents should be removed with TK-101 Chemical Cleaner or other suitable cleaner. Do not leave pockets of water. Existing surfaces should be repaired with TK Complete Concrete Patch and completely cured (48-72 hrs.) before placing the TRI-CON SYSTEM.

**Mixing Procedures:**  
Prepare a solution of one part TRI-ACRYL-30 to three parts water. Mix one gallon TRI-SHEEN to one 80# bag of TRI-MIX, then add enough of the TRI-ACRYL-30/water mixture to

produce a pancake batter consistency. Allow the mixture to rest 15 min. restir and use. The TRI-CON SYSTEM when mixed at these ratios will yield approximately 6 gallons of material, and will cover, at 1/8" thick, **approximately 24 sq. ft. per mixed gallon** or 144 sq. ft. per 6 gallon batch,

#### **Spray Application:**

Use a plaster or hopper type spray gun, spraying evenly from a uniform distance. Thickness of coating should be 1/8" or sufficient to seal, fill and level all surfaces. Under extreme not weather conditions, a tack coat should be applied before applying the system.

#### **Trowel Application:**

Some surfaces that are not level or are uneven may require trowel application. Proceed as above using less of the TRI-ACRYL-30 and water solution with the TRI-MIX and TRI-SHEEN mixture for a trowelable consistency. This will cause less coverage per gallon of TRI-CON mix.

#### **TRI-SHEEN APPLICATION:**

*(When used as a coating).*

#### **Coverage:**

150-300 sq. ft/gal. Porosity and texture of the concrete will affect the coverage rate.

#### **Dry Time:**

1-2 hours. A second coat can be applied in 1-2 hours. A 5 day curing time should be allowed before cleaning or washing.

#### **Preparation:**

Material is ready for use after stirring, do not dilute. Clean surface of all laitance and loose materials or stains Hot surfaces should be slightly dampened with water before applying.

#### **Method:**

Brush, latex paint roller, or spray. Some applications may require thinning; use very slight amount of clean water and always use the same amount of extra

water per gallon to retain same shade of color for the entire project.

#### **TRI-ACRYL-30:**

*(Used as a tack coat).*

#### **Coverage:**

300 sq. ft. per gal.

#### **Preparation:**

Mix 3 parts water (by volume) to 1 part TRI-ACRYL-30.

#### **Method:**

Use low pressure sprayer on large areas. Smaller areas can be brushed or rolled.

Equipment Cleaning: Mixers, containers, trowels can be rinsed with warm, soapy water; flush sprayers with same.

#### **PRECAUTIONS:**

TRI-SHEEN and TRI-ACRYL-30 contain acrylic resins and a minimal amount of ammonia, Excessive and prolonged inhalation may result in headache, nausea and eye or lung irritation, TRI-MIX contains portland cement which can cause irritation of the skin and eyes.

#### **FIRST AID:**

*Ingestion:* Induce vomiting; 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. TRI-MIX may develop sufficient heat to cause burns if allowed to set in contact with skin. Use only for the purpose described. Do not take internally.

**KEEP OUT OF THE REACH OF CHILDREN**

#### **6. AVAILABILITY**

TRI-MIX is packaged in 80# bags; TRI-SHEEN and TRI-ACRYL-30 are packaged in one, five and 55 gallon containers. These materials are available through TK/SIERRA Distributors; contact TK/SIERRA Office for the nearest distributor.

#### **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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