

1. PRODUCT NAME:
TRI-CON SYSTEM

2. MANUFACTURER
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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.

THE THREE PARTS:
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 keeps the coating in pores, cracks and voids, and bonds permanently to the surface to create a dense, durable and attractive surface. TRI-MIX resists salt spray penetration into bridge supports, parapets, and reinforcing rods. TRI-MIX is available in standard Pearl Gray, and Fed. Spec. 37150 (Tan); special colors are available upon request.

TK-225: 100% acrylic polymers in a water dispersion; blended into TRI-MIX to improve adhesion, cohesion and durability characteristics, and chemical resistance. TK-225 can also be used as a tack coat bonding agent.

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 growth. The film is flexible, does not peel or crack, and resists stains, dirt and color fading caused by exposure to ultra-violet light. Can be used alone as a masonry coating 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, barrier walls, reservoirs, tunnels, basements, and for resurfacing, patching and reconstruction of vertical surfaces.

LIMITATIONS:
TK-225: 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.

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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
-TK-225: ASTM C-109, C-190, C-348, C-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).
-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 D 523-89, Standard Test Method for Specular Gloss.
-Exterior Coatings: An architectural coating formulated and recommended for use in conditions exposed to weather.
-VOC Content Limit: less than 100 g/l

5. APPLICATION PROCEDURES AND INSTRUCTIONS

TRI-CON SYSTEM APPLICATION COVERAGE:
Concrete: approximately 5-7 lbs./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 TK-225 to three parts water; 4.5 total quarts will be required. Mix a half gallon of TRI-SHEEN to one 40# bag of TRI-MIX, then add enough of the TK-225/water mixture to produce a pancake batter consistency. Allow the mixture to rest 15 minutes, then restir and use. When mixed at these ratios, the TRI-CON SYSTEM will yield approximately

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

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3-gallons of material, and will cover, at 1/8" thick, **approximately 24 sq. ft. per mixed gallon** or 72 sq. ft. per 3-gallon batch.

SPRAY APPLICATION:

Use a plaster or hopper type spray gun, spraying evenly from a uniform distance. Thickness of the coating should be 1/8" or sufficient to seal, fill and level all surfaces. Under extreme hot weather conditions, a tack coat should be applied before applying the system.

TROWEL APPLICATION:

Surfaces that are uneven or not level may require trowel application. Proceed as above using less of the TK-225 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 a very slight amount of clean water and always use the same amount of extra water per gallon to retain the same shade of color for the entire project.

TK-225 APPLICATION:

(Used as a tack coat).

COVERAGE:

300 sq. ft. per gal.

PREPARATION:

Mix three parts water (by volume) to one part TK-225.

METHOD:

Use a 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 TK-225 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 40# bags; TRI-SHEEN and TK-225 are packaged in one, five, and 55-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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