



PRODUCTS

Division of Sierra Corporation
ISO 9001:2008 Certified

TRI-MIX PLASTER MIX CEMENTITIOUS CONCRETE SURFACER

Meets Federal EPA's VOC Requirements

Technical Data

1. PRODUCT NAME:

TRI-MIX PLASTER MIX
CEMENTITIOUS CONCRETE
SURFACER

2. MANUFACTURER

TK PRODUCTS
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3. PRODUCT DESCRIPTION:

TRI-MIX PLASTER MIX is a dry cementitious concrete surfacer that is designed to texturize, seal, waterproof and color both concrete and masonry substrates. The mixture has a high viscosity, which carries the coating into the pores, cracks and voids of the material, and bonds permanently to create a dense, durable and attractive surface. TRI-MIX PLASTER MIX is meant to be used with TK-225, an acrylic bonding agent, for improved bonding, adhesion, cohesion and durability characteristics, as well as chemical resistance.

BASIC USES:

TRI-MIX PLASTER MIX is used on vertical, overhead and non-traffic bearing horizontal surfaces. It can be applied to precast and formed concrete, regular and light-weight block, brick, stone, stucco, gunite, and other concrete and masonry surfaces. It may be used on interior, exterior, above or below grade applications. TRI-MIX PLASTER MIX is used as an alternative to the rubbing of architectural concrete surfaces to hide defects and blemishes.

APPLICATIONS INCLUDE:

- Bridges and Parapets
- Parking Garages
- Tunnels
- Water Tanks, Silos and Reservoirs
- Retaining walls, foundations, basements and building walls

TRI-MIX PLASTER MIX serves as an excellent base for both TRI-SHEEN and TRI-LASTIC coatings.

4. TECHNICAL DATA: COMPOSITION

TRI-MIX PLASTER MIX is a blend of hydraulic cements, lime, pigments, plasticizers, dispersants and selected and finely graded aggregates.

SPECIFICATIONS

TRI-MIX PLASTER MIX has been formulated to comply with the following: ASTM C-190, C-109, C-348, C-67, C-666.

- VOC Compliant

-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 15 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.

- VOC content limit: 250 g/l

5. APPLICATION PROCEDURES AND INSTRUCTIONS

SURFACE PREPARATION:

The surface must be structurally sound, free of dust, dirt, paints, oils, grease, coatings, laitance, form release agents or any other surface contaminants. TRI-MIX PLASTER MIX depends on chemical and mechanical bond to the substrates. Sandblast, shot blast or high pressure water blast to clean the surface. Any surface that has a glaze or is very dense will require mechanical abrasion to gain proper adhesion. All cracks should be cut out and patched. Mortar joints should be in sound condition; any joints that are cracked need to be chipped out and remortared. All honeycombing and voids need to be patched. Form ties need to be broken beneath the surface and patched. All walls that have water coming through need to have weep holes drilled at floor level and drained before application.

Fresh concrete should have gained sufficient strength before applying TRI-MIX PLASTER MIX. Depending upon the concrete mix and the temperature, it could be 4 to 14 days before application. It's the responsibility of the applicator to make certain that the surface is free of form oil and of unhydrated cement so that there is a sufficient bond to the substrate instead of to the contaminants on the surface.

COVERAGE

Two coats may be required. TRI-MIX PLASTER MIX should be applied at 5-7 pounds per square yard on smooth concrete, or 6-9 pounds on rough surfaces. Allow to dry before applying the second coat. The material should be applied at a thickness of 1/8" to 1/4".

MIXING

TRI-MIX PLASTER MIX may be mixed by hand, or may be mechanically mixed by using a slow speed drill and paddle mixer. However, mechanical mixing is preferred. A mortar mixer may be used for large jobs. Mix the powder into the liquid to keep the powder from forming lumps. The mixing liquid should be 3 parts water to 1 part TK-225. For stronger bonding on dense or questionable surfaces, or on hot or windy days, reduce the mixing liquid to 2:1 or 1:1. Each 40# bag will use approximately 4-5 quarts of mixing liquid. Put 2/3 of the liquid into the container and add the powder as the paddle is turning. Gradually add the remaining liquid to the mixture to bring the consistency to that of a heavy, completely blended pancake batter.

Let the mixture sit for 5 – 10 minutes, re-mix, and if necessary, add more mixing liquid to adjust the mixture to the proper consistency. Re-tempering the mix to extend the pot-life is not recommended.

TRI-MIX PLASTER MIX should be of a mortar consistency for troweling. Do not over-wet the mixture.

TRI-MIX PLASTER MIX
Cementitious Concrete Surfacers

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PRODUCTS

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PRODUCTS

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3
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Cementitious Concrete Surfacers

APPLICATION

WORK IN THE SHADE AS MUCH AS POSSIBLE. Dampen the substrate with potable water before starting. This will prevent drag on the material and will keep the substrate from pulling the moisture out of the first coat. TRI-MIX PLASTER MIX may be applied by sprayer or by brush. Spray application is the most cost effective application method on larger jobs.

Make certain to leave a textured surface to create a good bond with the second coat. Allow to dry, then apply the second coat.

TROWEL AND FLOAT FINISH:

Apply using a steel trowel, firmly pressing the material into voids and leveling it out. When the surface is set so that it will not roll or lift, follow with a sponge float. The surface should be floated uniformly. Do not use water.

SPRAYED-ON FINISH:

Mix to achieve a consistency suitable for a plaster type spray gun. To apply, spray on an evenly distributed coat of TRI-MIX PLASTER MIX. Keep the spray gun a uniform distance from the surface and move the nozzle with steady, even strokes. Do not angle the nozzle, as this will cause material build-up. After the material has set, double back over the surface with one or more light spray applications to achieve a uniform texture.

If rapid drying occurs because of very windy or hot conditions, mist spray with clean water for curing.

LIMITATIONS

- Do not apply to surfaces that are not clean.
- Do not apply to painted surfaces, the paint needs to be removed.
- Do not apply to frozen or frost filled surfaces.
- Do not apply if the surface or air temperature is below 40° F or expected to fall below 40° F within 24 hours.
- Do not apply in rain, or when rain is expected before the initial set.
- If the weather is windy or hot, the application should be frequently misted with water to prevent early dry out.
- If there are questions, call a TK Products Representative for more information.

SAFETY PRECAUTIONS

TRI-MIX PLASTER MIX contains Portland cement which can cause irritation of the skin and eyes. Excessive

and prolonged inhalation may result in headache, nausea, and eye or lung irritation.

FIRST AID

Ingestion: Induce vomiting; call a 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 PLASTER MIX has the potential to accumulate enough 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 PLASTER MIX is packaged in 40# bags; TK-225 is packaged in one, five and 55-gallon containers. Gray only, white available upon request. Minimum quantities only.

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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