



# TK-TRI-MIX PLASTER MIX

## Cementitious Concrete Surfacer

Item No. TK-TRI-PM

### PRODUCT DESCRIPTION

TK-TRI-MIX PLASTER MIX CEMENTITIOUS CONCRETE SURFACER is a dry cementitious concrete surfacer designed to seal, waterproof and color/texturize concrete and masonry substrates. TK-TRI-MIX PLASTER MIX CONCRETE SURFACER is to be used with TK-LIQUID BONDING AGENT 225\* for improved bonding, adhesion and cohesion between coats, and for added durability against chemical attack.

#### Features:

- Prevents against infiltration of water or chemicals.
- Fills pores, cracks and voids to permanently bond the surface making it more dense and durable.
- Provides uniform color and texture to make the surface more attractive.
- Works as an alternative to rubbing architectural concrete surfaces to hide defects and blemishes.

### USES:

Suitable for interior, exterior, and above or below-grade use. Great for vertical, overhead and non-traffic bearing horizontal surfaces. May be applied to a wide range of substrates including: precast and formed concrete, regular and light-weight block, brick, stone, stucco and other concrete/masonry surfaces.

Typical applications include: bridges, parapets, parking garages, tunnels, water tanks, silos, reservoirs, retaining walls, foundations, basements and building walls.

### APPLICATION PROCEDURES

#### PREPARATION:

**Existing Concrete** - The surface must be structurally sound, free of dust, dirt, paints, oils, grease, laitance, old coatings or form release agents or any other surface contaminants. Because TK-TRI-MIX PLASTER MIX depends on proper chemical and mechanical adhesion for bonding, the surface should be thoroughly cleaned by sandblasting, shot blasting or high pressure water blasting. Any surfaces possessing a glaze or that are very dense will require mechanical abrasion to attain proper adhesion with this product. All cracks should be cut out and patched and mortar joints that are cracked need to be chipped out and re-mortared. All honeycombing and voids need to be patched and form ties need to be broken beneath the surface and patched. Walls with water seepage need to have weep holes drilled at floor level and must be drained prior to application.

**New Concrete** - Fresh concrete should have gained sufficient strength before applying. Depending on the concrete mix used and temperatures during curing, it could be 4-14 days before application is recommended. It is the responsibility of the applicator to ensure that the surface is free of form oils or unhydrated cement that would otherwise interfere with sufficient bonding.

Do not apply if surface or air temperatures are below 40°F or are expected to fall below 40°F within 24 hours of application. Do not apply during rain or when rain is expected before the material has set.

#### MIXING:

TK-TRI-MIX PLASTER MIX may either be mixed by hand or may be mixed mechanically using a low speed drill and paddle mixer. Mechanical mixing is the recommended method for most jobs, while a mortar mixer may be used for larger jobs.

Each 40-lb bag of TK-TRI-MIX PLASTER MIX will require approximately 4-5 quarts of mixing liquid. To prepare the mixing liquid, combine 1-part TK-LIQUID BONDING AGENT 225\* to 3-parts water. In cases of very dense or questionable substrates, or in conditions of hot or windy weather, reduce the mixing liquid ratio to 2:2 or 1:1.

To avoid creating lumps in the powder, be sure to add the powder **to** the mixing liquid when combining. Do so by pouring 2/3<sup>rd</sup>s of the mixing liquid into a clean container and adding the powder while the paddle is turning. Gradually add the remaining mixing liquid until the consistency is similar to that of a heavy (completely blended) pancake batter, **or that of a mortar consistency when trowel application is planned**. Allow the mixture to sit for 5-10 minutes then remix and, if necessary, add additional mixing liquid to achieve the proper consistency. Re-tempering of the mix to extend the pot life is not recommended.

### TECHNICAL DATA

Composition and Materials:	A blend of hydraulic cements, lime, pigments, plasticizers, dispersants and finely graded aggregates.
VOC Content:	< 250 g/l
A.I.M. Category:	Flat Coatings, Exterior Maximum VOC 250 g/l
Applicable Standards:	-ASTM C-190 -ASTM C-109 -ASTM C-348 -ASTM C-67 -ASTM C-666

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## APPLICATION:

WORK IN THE SHADE AS MUCH AS POSSIBLE. Dampen the substrate with potable water before beginning as this will prevent drag on the material and will keep the surface from drawing moisture out of it. In cases of hot or windy weather, the surface should be misted with water frequently during application to prevent early dry out. Spray application is the most cost effective method for larger jobs, however TRI-MIX PLASTER MIX may also be applied by trowel.

*Spray Application* - Mix to a consistency suitable for a plaster-type spray gun. Spray an evenly distributed coat, keeping the spray gun a uniform distance from the surface and moving 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 due to very hot or windy conditions, mist spray the surface with clean water during curing.

*Trowel and Float Application* - Apply using a steel trowel, firmly pressing the material into the voids and leveling it out. Once the surface is set so that it will not roll or lift, follow with a uniform sponge float. Do not use water.

## COVERAGE:

Surface	Coverage
Smooth surfaces	5-7 lbs/sq. yard (at 1/8" - 1/4" thick)
Rough surfaces	6-9 lbs/sq. yard (at 1/8" - 1/4" thick)

Coverage rates are provided as a guideline only. Many factors including surface texture, porosity and weather conditions will determine actual coverage rates.

## LIMITATIONS:

- Do not over-wet when mixing
- Do not apply to unclean surfaces
- Do not apply to painted surfaces - any paint must be removed
- Do not apply to frozen or frosted surfaces
- Do not apply if surface or air temperatures are below 40°F or are expected to fall below 40°F within 24 hours of application
- Do not apply during rain or when rain is expected before the material has set
- In cases of hot or windy weather, the surface should be misted with water frequently during application to prevent early dry out

## FIRST AID:

- Consult this product's safety data sheet for additional health and safety information. Safety Data Sheets are available through TK distributors, the TK office and the TK website.

## AVAILABILITY:

TK-TRI-MIX PLASTER MIX CEMENTITIOUS CONCRETE SURFACER is available through TK distributors. Contact the TK Products office for the nearest distributor.

Packaged in 40-pound bags.

FOR PROFESSIONAL USE ONLY

## NOTES

\*TK-LIQUID BONDING AGENT 225 must be purchased separately.

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