



TK-WATER BASED EPOXY 2049

Protective Floor Finish and Sealer

Item No. TK-2049

PRODUCT DESCRIPTION

TK-WATER BASED EPOXY 2049 is a two-component, self-priming epoxy coating for concrete and steel applications where maximum durability and chemical resistance are needed. The high-gloss finish is available in both clear and colored formulations.

Features:

- Forms a penetrating, high strength coating that is resistant to abrasion from heavy traffic and is unaffected by rubber burns.
- Resistant to damage caused by exposure to alkalis, solvents, acids, salt solutions and water, fats, oils and fuels.
- Forms an inseparable bond with the surface that is chip and peel resistant.
- Formulated with resins which work as an adhesive within the slab, strengthening it around minor cracks, crevices and weak spots.
- Low maintenance, high-gloss finish is smooth, durable and easy to clean.

USES:

Suitable for interior use on concrete flooring subjected to heavy traffic or chemical/corrosive attack, or for areas in which a glossy, attractive and durable coating is desired. Ideal for flooring in industrial facilities, warehousing, paper mills, automotive garages, canneries, packing plants, aircraft hangars, wastewater treatment facilities and farm buildings.

APPLICATION PROCEDURES:

PREPARATION:

Concrete surfaces must be clean, dry and free of grease, wax, oils, loose paint and wax/resin based sealing compounds. While mechanical abrasion or shot blasting is the preferred method of preparation, acid etching followed by thorough repeated rinses of water may be used for smaller areas. Test for dust by wiping the floor with a dark colored cloth or dust mop and vacuum the area if dust is noticeable on the cloth/mop.

Once the surface has been cleaned it must be properly dried. A simple test to ensure proper dryness is by placing a rubber mat on the floor overnight. The surface is dry enough to coat if there is no moisture or darkening observed under the mat when checked. If moisture forms on the underside, ventilate the area and retest until no moisture collects under the mat.

New Concrete Preparation - New concrete should be cured using TK-DC WB DISSIPATING CURING COMPOUND 2519* or by water curing.

Existing Concrete Preparation - Repair holes, spalling, cracks and weak spots using TK-COMPLETE CONCRETE PATCH*.

TECHNICAL DATA

Composition and Materials:	A modified polyamide reacted with a liquid epoxy resin
Flash Point:	> 200°F (TCC)
Solids by Weight:	37%-50%
Pot Life*:	3-4 hours @ 60°F
Dry Time (@ 70°F)**:	
Tack Free	6-8 hours
Light Traffic	8-10 hours
Heavy Traffic	36 hours
Recoat	within 24 hours
Full Cure	1 week
VOC Content:	< 400 g/l
A.I.M. Category:	Floor Coatings Maximum VOC 400 g/l

*Pot lives are dependent on temperature. Higher temperatures will result in shorter pot life.

**Drying times are dependent on temperature. Higher temperatures will extend

MIXING:

Before mixing, collect all necessary materials, tools and/or equipment. Mixing instructions must be followed precisely as exact measurement and blending are imperative. To mix, stir parts A and B individually before mixing together. Mix 4-parts A to 1-part B by volume (the kit is supplied pre-measured). Stir well with a jiffy-type mixer on a drill for 2 to 5 minutes. Mix only in quantities that can be used within the pot life of the material. Use complete kits only and do not alter their pre-measured contents.

APPLICATION:

Apply with a brush or roller. Sprayer application should be attempted by professional applicators only. Use a conventional or airless sprayer equipped with neoprene gaskets and hose assembly. Thin with TK-SUPER SOLVENT 99 down to a spraying viscosity and use normal paint spray techniques.

Apply uniformly, maintaining a wet edge to avoid lap marks and ensuring plenty of paint while applying. Use natural breaks as stopping points and back roll to eliminate any puddling or to cover any thin/sparse areas. If a second coat is desired, it should be applied once the first coat is tack free and will not mar under foot pressure. It is always recommended to "cross hatch" subsequent coats by applying at a 90° angle to the previous coat as this will avoid lap marks and eliminate thick/thin spots. A non-skid finish may be achieved by mixing one container of TK-TRI-GRIP NON-SLIP SYNTHETIC AGGREGATE* to 1 5-gallon unit (mixed) of this product.

CLEAN UP:

Clean tools, equipment and spills with soap and water before the material dries. Cured epoxy is very difficult to remove. To clean sprayers, pump water through the equipment to remove material residue which can clog the hose and spray gun assembly.

NOTES:

TK-DC WB DISSIPATING CURING COMPOUND 2519 must be purchased separately
TK-COMPLETE CONCRETE PATCH must be purchased separately
*TK-TRI-GRIP NON-SLIP SYNTHETIC AGGREGATE must be purchased separately

COVERAGE:

Surface	Coverage
Smooth Troweled Surface:	150-250 sq.ft./gal
Rough Finished Surface:	100-200 sq.ft./gal

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

LIMITATIONS:

- Concrete must be a minimum of 28 days old to allow all moisture within the slab to dissipate. Application may be made sooner, but should only be done under conditions specified by the manufacturer. Moisture content should be checked where questionable.
- Do not apply in temperatures less than 60°F as this is vital to proper drying, curing and pot life times.
- Do not apply in damp or wet weather.
- Floors laid over frozen soil during the late fall or winter months should be coated until the following spring after the soil has thawed.
- Protect surrounding surfaces from exposure with this material and use care to avoid tracking, slops or spills as epoxy is very difficult to remove once cured.

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-WATER BASED EPOXY 2049 is available through TK Distributors. Contact TK Products for the nearest distributor.

Available in clear, white, light gray, dark gray and tan formulations. Custom colors are available upon request. PLEASE ALLOW TWO WEEKS LEAD TIME FOR CUSTOM ORDERS TO BE FULFILLED.

Packaged in 5-gallon pails, 1-gallon cans and 1-quart kits.

FOR PROFESSIONAL USE ONLY

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TK Products Construction Coatings

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