

TK-100™ DATA SHEET

TK-100™ is a two part, hybrid-polymeric epoxy-based coating, specifically developed to provide a tough, flexible, chemical-resistant barrier, exhibiting excellent adhesion, and outstanding resistance to abrasion, impact, & marring. A "chemically-puckered" **TK-Tred™ Non-Slip** version is available.

TK-100™ is impervious to creosote, CCA, pentachlorophenol, and other wood preservatives, and is ideal for a wide-range of industrial applications, for steel or concrete, requiring chemical & corrosion protection from caustic splash & spillage or fumes. Recommended as a secondary containment coating.

TK-100™ is an exceptional floor coating for drip pads, lumber storage; water-treatment facilities; warehouses; supply rooms; air-conditioner, compressor, water-chiller, electrical, clean, or control rooms; etc., where protection from chemical splash & spillage, heavy foot traffic, or moderate vehicle traffic, is paramount.

TK-100™ also provides a tough, stain-resistant coating for masonry, plaster, wood or concrete walls.

Component Properties of TK-100™

Base Compound:

Appearance Medium Viscosity, Clear or Tinted
Solid Content 65 - 70%

Curing Agent:

Appearance Clear, Free-Flowing Liquid
Solid Content 80%

Application Mix:

Appearance Low Viscosity, Clear or Tinted
Solid Content 70 - 75%
V.O.C. Content @ 210 grams/liter (1.8 lbs/gal)

Mixing Instructions

TK-100™ is supplied in equal amounts of Base Compound and Curing Agent. Impeller mix approx 5-minutes until completely uniform. Allow mix to stand 30-minutes at 70° - 77°F. Impeller re-mix approx. 3-min. before application.

"Pot" Life 16 - 24 hours at 75°F
"Re-Coat" Time >1 hour
"Tack-Free" Time 4 hours
"Dry-to-Touch" Time 8 hours
"Light Traffic" >24 hours
"Wheeled Traffic" >36-hours
"Cure" Time (optimum chemical resistance): 7 days

Application

TK-100™ may be applied by brush, roller or standard spray equipment. May be thinned with 5% Xylene for spray application. Apply only when air and surface temperature is above 50°F. Less than 70°F extends cure time.

Surface Preparation

All surfaces to be coated should be clean, dry, free of oil, grease and other contaminants, including loose oxidation and paint. New concrete must cure 28-days. Shot-blast existing concrete be remove previous coatings.

Clean-up

Immediately after use, or before curing, equipment and tools may be cleaned with Lacquer Thinner, Xylene, Toluene, M.E.K., or an approved low-V.O.C. cleaner.

Packaging

1:1 kits available in 2-gallons, 5-gallons, 10-gallons; and one each 55-gallon drums of **Base & Curing Agent**.

Properties of Cured TK-100™

Color Clear or Tinted
Gloss 100
Coverage:

1-mil (theoretical) @ 1,200 sq.ft./gal.
3-mil (non-porous substrate) @ 330 sq.ft./gal.
5-mil (non-porous substrate) @ 200 sq.ft./gal.
3-mil (porous concrete) @ 250 sq.ft./gal.
5-mil (porous concrete) @ 150 sq.ft./gal.

Recommended DFT 3 to 5-mil / floor: 8 to 10-mil
Tensile Strength 9,000 p.s.i.
Flexural Strength 12,000 p.s.i.
Flexibility 180° over 1/8-inch Mandrel
Hardness 85 Shore D
Direct Impact Resistance 175 lbs./in.
Vapor Permeability (FedSpec TT-C-535B) Pass
Salt Spray: 2,500 hours (ASTM B-17) Pass

Chemical Resistance:
Splash & Spillage Excellent
Fumes Excellent
Heat Resistance:
Sustained 250°F
Intermittent 350°F

Adhesion:
Steel, Aluminum, Concrete, Etc. Excellent
Primed High-Polished Aluminum Excellent
Cross Hatch Standard Excellent

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