

KOSTER UTC

Transparent Polyurethane-Polyurea Top Coat

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Description:

KOSTER UTC is a unique versatile polyurethane-polyurea coating. KOSTER UTC is a clear two component thermosetting, low odor, 95% solids, UV-stable coating designed as an all purpose coating system for various conditions. It can be applied directly to concrete or on top of epoxies. It is suited to be used as protective or final top coat in the KOSTER QF and CF resinous floor coating system.

Material Properties:

- UV stable
- Low Temperature curable
- Excellent chemical resistance
- Excellent adhesion
- Anti-microbial
- Fast curing
- One System Build-up
- Antimicrobial
- Sealer for chips and quartz
- Primer directly applied to concrete
- Pigmented
- High Gloss

Appropriate Applications:

- Laboratories
- Garages
- Pharmaceutical Plants
- Clean rooms
- Kitchens
- Hospitals
- Laundries
- Kennels

Testing for Moisture and/or Contaminants:

It is the owner or the owner's representative's responsibility to examine the substrate for contaminants and moisture. Testing for contaminants is not required but recommended by KOSTER.

Limits for moisture vapor transmission for epoxy floor systems are:

- 3 lbs./1,000 sq. ft./24 hour using the calcium chloride test per ASTM F-1869 or
- 75% relative humidity using In-situ Relative Humidity Testing per ASTM F-2170.

Contact the KOSTER American technical team for additional details and guidelines concerning testing.

Technical data:

Property	Data
Percentage solids by weight	95%
Mix Ratio (by volume)	A (resin) : B (hardener) 1 part : 1 part
Viscosity at 70° F	300 - 400 cps
Pot life at 70° F	approx. 40 min
Dry Time at 70° F	approx. 1 - 2 h
Working Time at 70°F	approx. 15 min
Volatile Organic Compound (VOC)	Nil

Physical Properties:

Property	Test Method	Result
Konig Hardness	ASTM D-4366	171
Compressive Strength	ASTM D-2370	7,000 psi
Tensile Elongation	ASTM D-638	10%
Adhesion to Concrete	ASTM D-4541	400 psi, Concrete Failure
Impact Resistance	ASTM D-2794	>160
Water Absorption	ASTM D-570	Not tested
Flammability	ASTM D-635	Not Tested
Abrasion Resistance CS17 Wheel 1000 GM Load 1000 Cycles	ASTM D-4060	15 mg loss
Coefficient of Friction Wet (James Friction Tester) Dry	ASTM D-2047	0.7 0.8
Gloss (60 degrees)	ASTM D-523	90+

Surface Preparation:

Substrates must be sound, solid, profiled and free of materials or contaminants that may act as bond breakers. Suited substrates are KOSTER ES and KOSTER MPE coatings. KOSTER UTC can be applied directly to concrete if the moisture condition permits.

Mixing:

Mix 1 part (by volume) of A component (resin) with 1 part (by volume) of B component (hardener). For a 1 gal mix, measure 0.5 gal of B component (hardener) and 0.5 gal of A component (resin). Pour the B component (hardener) into a clean mixing bucket, making sure no material remains in the

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measuring bucket. Add the A component into the B component making sure no material remains in the measuring bucket. Use an electrical mixer (800-1000 RPM) and a "Jiffy-type" mixing paddle to mix the material. Mix for 2 minutes. Pour the fully mixed material onto the substrate immediately after mixing.

Application:

KOSTER UTC can be applied by roller or squeegee. Apply a coat of mixed KOSTER UTC at approx. 320 ft²/gal with a flat squeegee. Then back roll and cross roll with a 3/8" epoxy rated non-shed roller. Along edges, the material can be brush applied.

To extend working time, KOSTER UTC can be thinned with Xylene. The maximum amount that can be added is 1 qt per 1.5 gal mix. The Xylene is added while A and B components are mixed together.

Coverage:

Coverage: 3 to 5 mils - 530 to 320 sq ft/gal

Chemical Resistance:

Well-rounded acids, bases, and cleaners

Packaging:

The A and B component of KOSTER UTC are packaged in 1 gal canisters, 2.5 gal canisters and in 55 gal drums. The mixing ration of 1 part A to 1 part B by volume leads to the following kits:

2 gal kit → consists out of one 1 gal A (resin) canister and one 1 gal B (hardener) canister

5 gal kit → consists out of one 2.5 gal A (resin) canister and one 2.5 gal B (hardener) canister

110 gal kit → consists out of one 55 gal A (resin) drum and one 55 gal B (hardener) drum

Storage:

Between 50° F - 90° F

Shelf Life:

1 year in original sealed container

Clean up:

Immediately with Xylene (or similar) after use

Disposal:

Dispose of in accordance with current local, state and federal regulations. Collect with absorbent material.

Limitations:

This product is best suited for application in temperatures between 60°F and 90°F and relative humidity <80 %.

Epoxy inherently yellows, require a UV stable topcoat. Some light colors may require multiple coats for adequate hiding power. Certain colors appear white when scratched.

Slight batch-to-batch color variations may occur. When ordering to match a previous color, inquire if the same batch number or quality control number is still available.

Safety Precautions:

Follow Safety Data Sheet and the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed. KEEP OUT OF REACH OF CHILDREN.

Cleaning of finished surface:

This product is considered to be a low maintenance coating system, however, certain textures and service environments require specific procedures.

Warranties:

KOSTER warrants that its product shall be in accordance with the specifications published in the current revision of the products data sheet. KOSTER covenants that in the event any of its products fail to meet their published specifications, KOSTER shall replace those products proved to be defective. KOSTER shall not be responsible for any incidental or consequential damages due to the breach of its warranties. Notwithstanding the foregoing, KOSTER's sole liability hereunder shall not exceed the cost of the defective product originally purchased. EXCEPT AS SET FORTH ABOVE, KOSTER MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED AND MAKES NO WARRANTY AS TO THE MERCHANTABILITY OR FITNESS OF THE PRODUCT FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The user must determine if the product is suited for the intended use and the user must bear the risks and liabilities associated with it.