



KOSTER CT 375

Technical Data Sheet CT 375

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ESD-Control Floor Coating Designed for Light to Medium Industrial Applications

Features

KOSTER CT 375 ESD Top Coat is a water-based polyurethane dispersion specifically designed for use in ESD-protected flooring systems.

This top coat provides a durable, protective finish for environments where static control is critical, including electronic manufacturing areas, automotive assembly lines, laboratories, computer data centers, and other facilities requiring protection from both mechanical wear and chemical exposure.

Once cured, the coating delivers a matte-to-satin finish, combining high performance with a clean, professional appearance that is easy to clean.

Technical Data

Property	Result
Mix Ratio	1:1:1 by unit (see packaging details)
Density (mixed)	1.15 g/cm ³
Pot Life	45 min
Installation Temp.	59-77° F
Layer thickness	3-5 mil
Coverage Rate	320-500 ft ² /gal
Abrasion Resistance	111mg loss
Dynamic Coefficient of Friction (dry)	0.94 (ANSI A326.3)
Resistance to Ground in combination with a person	≤3.5 x 10 ⁷ ohms ANSI/ESD STM 97.1 (ANSI/ESD S20.20-Method 1)
Point to point resistance	1 x 10 ⁶ - 1 x 10 ⁸ ohms
Body Voltage Test	35 V peak (ANSI/ESD 97.2 (ANSI/ESD S20.20 - Method 2)
Surface to surface	≤1x10 ⁶ ohms (ANSI ESD S7.1)
Electrostatic Propensity of Carpets	Neolite - ≤1.9 kv (AATCC 134 (modified)) Leather - ≤0.4 kv (AATCC 134 (modified))
Tack Free	4 hours
Foot Traffic:	20 hours
Recoat Window:	max. 24 hours after opening to foot traffic

Fields of Application

KOSTER CT 375 ESD Top Coat is designed as a surface protection system for concrete floors in areas requiring electrostatic discharge (ESD) control under light to medium industrial traffic conditions.

Typical installations include:

- Clean rooms

- Packaging and assembly areas
- Warehouse and distribution centers
- Data centers and server rooms
- Automotive manufacturing and electronics facilities

Application notes:

For best results, apply over a pigmented primer or base coat of similar color to ensure sufficient hiding power.

Using the same color epoxy base coat as the ESD topcoat is recommended.

Lighter colors are not recommended due to reduced coverage and hiding capacity.

Substrate

If substrate Relative Humidity exceeds 75%, apply a KOSTER VAP I[®] 2000 system for moisture mitigation.

- Expansion joints must be honored and filled with a suitable flexible joint material such as KOSTER MS Joint Sealant .

- The substrate must be sound, clean, and free from loose particles, oils, grease, and other contaminants.)Contamination may result in surface defects such as fisheyes.)

- Apply an appropriate primer prior to installation. (KOSTER MPE, or a pigmented version of KOSTER VAP I[®] 2000, depending on facility requirements.)

- Prior to installing KOSTER CT 375, apply self-adhesive conductive copper grounding tape (KOSTER ESD 475) in a grid of approximately 30 ft (10 m) spacing. (Grounding tape must be connected to the KOSTER ESD 476 grounding system by a qualified electrician.)

Ordering information

1.5 gallon unit: (approx. 480-750 ft²/unit)

Part A: 1.04 gal (9.63 lb in a 2 gallon bucket)

Part B: 0.37 gal (3.41 lb in a 1/2 gallon jerrycan)

Part C: 2.41 lb (in a 2 gal bucket)

3 gallon unit: (approx. 960-1500 ft²/unit)

Part A: 2.07 gal (19.26 lb in a 3.5 gallon bucket)

Part B: 0.74 gal (6.82 lb in a 1 gallon Jerrycan)

Part C: 4.82 lb (in a 3.5 gal bucket)

Application

Conditioning:

Prior to installation, KOSTER CT 375 Components A and B as well as the substrate temperature must be between 59-77 °F.

Ambient humidity must be below 70%.

Substrate temperature must be at least 5 °F above the dew point.

Mixing Procedure:

- Premix Component A until homogeneous.

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The installer is responsible for the correct application taking into consideration the specific conditions of the construction site and the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which deviate from the specifications contained in any Company literature may not be relied upon in the absence of written confirmation from the Company. The installer must comply with all testing, technical requirement, guidelines, and industry customs at all times. The terms, conditions, and limitations contained in the written warranty for the product controls over the specifications contained herein. This guideline has been technically revised; all previous versions are invalid.

- While mixing with a slow-speed drill (max. 400 rpm) and a standard “Jiffy” blade, slowly add the B Component to the A Component.
- Mix for approximately 1 minute until the blend is streak-free and uniform.
- Slowly add the Component C (aggregate) into the mixed A/B components while mixing continuously.
- Mix for 2–3 minutes, moving the blade along the sides and bottom of the container to ensure a complete blend.
- Periodically scrape the sides and bottom with a mixing stick to eliminate unmixed material.
- Continue mixing until the material is homogeneous in appearance.

Important Notes:

- Avoid creating dust when handling Component C.
- Do not entrain air during mixing—keep drill speed low and steady.

Application:

Spiked shoes should be worn during application while walking over the fresh material. Broadcasting quartz or color chips is not permitted. Spread the material at a coverage rate of 320-500 ft²/gallon using a shed-resistant 3/8 inch nap roller. Too thin or too thick will cause a non-uniform appearance. Spread the material evenly using V-shaped cross passes. Finish by cross rolling with continuous movement in the same direction to avoid roller marks while working your way out of the area. Late cross rolling could lead to streaking.

Occasionally remix the material in the paint tray and bucket to avoid settling of the C component.

Examine the work immediately after rolling to ensure complete, uniform coverage with no missed or thin areas. Lighter colors may need an additional coat.

Allow material to dry for at least 20 hours (at 75°F, 50% rH) prior to opening to foot traffic.

Curing Period

Allow the floor coating to cure for a minimum of 5 days before performing any mechanical cleaning such as sweeping machines, auto-scrubbers, or floor buffers.

General Care and Maintenance

Consistent maintenance is essential for extending the life and preserving the appearance of the new floor coating. Routine sweeping and scrubbing are strongly recommended, as dust, grit, and other debris act as abrasives that can dull the finish and shorten the coating’s service life. Spills should be cleaned immediately—certain chemicals may stain or permanently damage the surface if left in place.

For best results, use only soft nylon brushes or white, non-abrasive pads when scrubbing the coating. Avoid the use of aggressive pads or brushes, as these can prematurely reduce gloss and damage the finish.

Precautions

- Take care to avoid scratching or gouging the coating. Dragging heavy objects across the floor may cause scratches, and dropping sharp or heavy items may result in chips or, in some cases, small popouts of the underlying concrete.
- Rubber tires may cause staining over time. To prevent this, place a barrier such as a protective sheet between the tire and the coating.

Sudden stops, sharp turns, or tire spins can generate enough frictional heat to soften the coating, leaving permanent marks.

Repairs

Repair chips, gouges, or scratches as soon as they are identified. Prompt repair prevents water or chemical intrusion that can lead to further coating damage or substrate deterioration. Prepare the repair area by sanding to achieve a CSP 1 surface profile, then wipe with denatured alcohol (or an approved solvent). Allow the solvent to fully flash off—typically about 30 minutes—before installing the repair material.

Note: The color of the repaired area may vary due to differences in coating batch and age.

Additional Recommendations

- Use walk-off mats at entry points to reduce the amount of grit and moisture tracked onto the floor.
- Maintain a regular cleaning schedule tailored to the facility’s traffic level and type of exposure (chemicals, forklifts, etc.).
- For aggressive chemical environments, consult the coating manufacturer for specific cleaning solutions compatible with the floor system.

Coverage

320 – 500 SF/gallon

1.5 gallon unit (approx. 480-750 ft²/unit)

3 gallon unit (approx. 960-1500 ft²/unit)

Cleaning

Clean tools immediately with xylene (or similar) after use.

Packaging

375 001

1.5 gallon unit

375 003

3 gallon unit

Storage

Store between 50-90°F. The product must not be allowed to freeze. In original unopened packaging the material may be stored for 12 months.

Safety

Follow Safety Data Sheet for proper personal protective equipment to use when handling this product. Use only as directed.

Limited Warranty

KOSTER warrants that its product shall be in accordance with the specifications published in the current revision of the product data sheet. KOSTER covenants that in the event any of its products fail to meet their published specifications, KOSTER shall replace those products proven 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

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Waterproofing Systems

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

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