



## KOSTER CT 221

Technical Data Sheet CT 221

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### Self leveling floor coating for high traffic areas

#### Features

KOSTER CT 221 is a two component, solvent-free self leveling floor coating for concrete protection. It is a highly mechanically resistant and chemically resistant top coat which is used to protect concrete. The coating is self-leveling and is compatible with various broadcast media.

#### Technical Data

Mix ratio	2:1 by volume
Pot life	Approx. 40 min.
Installation temperature	> 40°F
Viscosity (70°F)	Approx. 1000 cps
Compressive strength	> 17000 psi
Bending tensile strength	> 4000 psi
Tensile strength (C25/30)	> 400 psi (failure in substrate)

#### Fields of Application

KOSTER CT 221 is used to protect concrete surfaces subject to forklift or vehicle traffic such as warehouses, parking decks, etc. For exterior applications, KOSTER UTC is required for UV protection.

#### Substrate

The substrate must be dry, solid, free of loose particles, oils, grease, and other contaminants. Sandy, dusty, or soiled substrates are to be prepared by shotblasting down to a solid and clean layer. Grinding as a method of substrate preparation is only allowed on details and smaller areas that shotblasting equipment cannot reach. The minimum average tensile strength of the substrate should be at least 200 psi. All dust must be removed from the surface. After mechanical substrate preparation, strong surface roughness may be evened with KOSTER repair products such as KOSTER Repair Mortar Plus or KOSTER MRU. If the substrate has cracks, they may be repaired with KOSTER ES mixed with KOSTER TA fiber at 1:1 by volume. Smooth repaired surfaces (including KOSTER SL products) are primed with KOSTER ES. If a KOSTER VAP I 2000 product has been installed, KOSTER ES is not required. During the application and for at least 24 hours afterwards, the substrate must be at least 5°F above the dew point. The substrate must have a minimum temperature of 40°F.

#### Application

**Mixing:** Mix 2 parts (by volume) of A component (resin) with 1 part (by volume) of B component (hardener). Use an electrical mixer (400 RPM) and a "Jiffy-type" mixing paddle to mix the material. The material must be mixed for at least 2 minutes, until it is streak free and homogeneous. Scrape the sides of the mixing vessel to ensure adequate mixing. Repot the material and mix for another minute. Pour the fully mixed material onto the substrate immediately after mixing.

1. Apply a coat of mixed KOSTER CT 221 at approx. 50-100 ft<sup>2</sup>/gal with a squeegee. Back roll and cross roll with a 3/8-in epoxy rated non-shed roller. Along edges, the material can be brush applied.
2. Broadcast KOSTER Natural Quartz 25 or 40 (depending on desired

effect) into the fresh, wet KOSTER CT 221 coat. Wearing spiked shoes, walk on the wet epoxy holding a suitable container and broadcast the quartz into the fresh coating until the floor appears dry. This will require approx. 0.5 lb/sq ft. Throw the aggregate into the air so that it falls vertically onto the floor. It may take 15 to 30 seconds for the quartz to be absorbed by the epoxy. Do not broadcast into the edge that will be joined into the next section. Leave a 2 ft wide wet edge without broadcast to permit overlapping when proceeding onto next section. Do not walk on the broadcasted quartz with spiked shoes. Be sure to keep contaminants out of the quartz. Allow to cure.

3. Sweep off the excess quartz using a stiff, clean, dry broom with synthetic bristles.

4. Lightly sand the quartz surface in order to remove high spots. Sweep or vacuum the floor to remove all loose particles.

5. For second broadcast, mix additional material and repeat steps 1 through 4.

6. Install a seal coat over the quartz broadcast. Broadcast medium and desired texture will affect the coverage of seal coat(s). More material will be required with a coarser broadcast medium or if a smoother finish is desired. Less material will be required with a finer broadcast medium or if a rougher finish texture is desired.

For an abrasion-resistant, UV-resistant, textured surface, apply KOSTER UTC. If UV-resistance and high abrasion resistance are not required, KOSTER CT 221 may be applied as a top coat. An additional CT 221 top coat can be applied to achieve a smooth surface. KOSTER UTC may be applied to the smooth surface for additional abrasion and UV-resistance. Do not introduce to tire traffic on finished installation unless it has been allowed to cure for 7 days.

#### Coverage

Approx. 16-32 mils (50-100 sq ft/gallon).

#### Cleaning

Clean tools immediately after use with Xylene or similar. Cured material must be mechanically removed.

#### Packaging

CT 221 003	3 gallon
CT 221 005	5 gallon

#### Storage

Store dry between 40 and 80°F. Shelf life is 12 months.

#### Safety

Consult Safety Data Sheet. May cause irritation to eyes, skin, or respiratory system. Avoid contact with eyes or prolonged contact with skin. Provide adequate ventilation. Wear personal protective equipment including gloves, safety eyewear, long sleeves, full length trousers, and non-absorbent shoes. In case of eye contact, flood eyes with clean water and seek medical attention. In case of skin contact, wash area

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.

# KOSTER

## Waterproofing Systems

with soap and water. Do not use solvents on skin.

### Limited Warranty

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.

### Related products

KOSTER VAP I 2000 Zero VOC	Art.-Nr. CT 230
KOSTER VAP I 2000 FS	Art.-Nr. CT 233
KOSTER VAP I 2000 UFS	Art.-Nr. CT 234
KOSTER Spiked Roller	Art.-Nr. CT 914 001
KOSTER Squeegee	Art.-Nr. CT 918

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