



# KOSTER CT 221

Technical Data Sheet CT 221

Issued: 01-17-20

## 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                 | 4:1 by weight                    |
| Color                     | Pebble grey                      |
| Pot life                  | Approx. 60 min.                  |
| Installation temperature  | > 40° F                          |
| Viscosity (70° F)         | Approx. 5000 cps                 |
| Compressive strength      | > 7250 psi                       |
| Bending tensile strength  | > 1750 psi                       |
| Tensile strength (C25/30) | > 375 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 can be evened with KOSTER repair products such as KOSTER Repair Mortar Plus or KOSTER SL Protect. If the substrate has cracks, they can be repaired with KOSTER CT 121 mixed with KOSTER Natural Quartz Q40. Surface roughness can be filled with KOSTER CT 121. Smooth repaired surfaces (including KOSTER SL products) are primed with KOSTER CT 121. If a KOSTER VAP I 2000 product has been installed, KOSTER CT 121 must be applied between 24 and 48 hours after the VAP coating has cured. Kiln dried sand or filler material such as KOSTER Natural Quartz Q40 or Q25 is first mixed into the A component, before adding the B component. 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. KOSTER Natural Quartz Q40 is mixed evenly into the primer KOSTER CT 121 and applied. Immediately afterwards, the surface is broadcast to rejection with KOSTER Natural Quartz Q40 (consumption approx. 0.8 lb/sq ft).

### Application

After 24 hours of curing of the CT121, remove the excess broadcast. Mix the two KOSTER CT 221 components using a slowly rotating

(≤400 rpm) electrical mixer. Pre-mix the A component before combining. 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. Re-pot the material and mix for another minute.

Spread the mixed material evenly onto the substrate with a rubber squeegee or trowel at approximately 40 sq ft/gallon (40 mils).

### Installation on smooth industrial floors

When installing on top of KOSTER VAP I 2000 products, the KOSTER CT 221 is installed in two layers each at a minimum layer thickness of 80 mils. The second layer must be installed within 24 hours of the first. Spread the material with a notched rubber squeegee or trowel. Roll material immediately after spreading with a spiked roller in two directions. Wear spiked shoes during application.

### Coverage

Approx. 40 mils (0.04 in) layer thickness (40 sq ft/gallon).

### Cleaning

Clean tools immediately after use with KOSTER Universal Cleaner or similar. Cured material must be mechanically removed.

### Packaging

CT 221 025 6 gallon kit

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

### 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

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.



## Waterproofing Systems

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 CT 121              | Art.-Nr. CT 121     |
| 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 918 001 |
| KOSTER SL Premium          | Art.-Nr. SL 280 025 |
| KOSTER SL Flex             | Art.-Nr. SL 284 025 |
| KOSTER SL Protect          | Art.-Nr. SL 286 025 |
| KOSTER Universal Cleaner   | Art.-Nr. X 910 010  |

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