



KOSTER MPE-F

Technical Data Sheet CT 262

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Fast curing multi purpose epoxy for chip and quartz floors

Features

KOSTER MPE-F is a fast curing, unique, versatile, modified cycloaliphatic multi-purpose epoxy. KOSTER MPE-F is a clear, two component, thermoset, low odor, 100% solids epoxy designed as an all-purpose coating system for various conditions and substrates. It can be used in low temperatures down to 40° F and for quicker turnaround times under standard temperature conditions. The material is suitable for embedding chip and quartz as well as for finish top coats. It is part of the KOSTER Chip and Quartz Floor System.

Technical Data

| Property | Data |
|-----------------------|-----------------------------------|
| % solids (by weight) | 100% |
| Mix Ratio (by volume) | A (resin) : B (hardener) 2 : 1 |
| Viscosity, 70°F | 450 cps |
| Pot life, 70°F | approx. 20 min |
| Dry Time, 70°F | approx. 4 hrs |
| Working Time, 70°F | approx. 10 min |
| VOCs | 0 |

| Property | Test Method | Result |
|-------------------------|--------------|---------------------------|
| Hardness (Shore D) | ASTM D-2240 | 75-80 |
| Compressive Strength | ASTM D-695 | 17,000 psi |
| Tensile Strength | ASTM D-638 | 4000 psi |
| Tensile Elongation | ASTM D-638 | 7.5% |
| Adhesion to Concrete | ASTM D-4541 | 400 psi, Concrete Failure |
| Impact Resistance | ASTM D-2794 | >160 |
| Water Absorption | ASTM D-570 | 0.04% |
| Flame Spread | ASTM E648-14 | Class I, NFPA 101 |
| Abrasion Resistance | ASTM D-4060 | 30 mg loss |
| Coefficient of Friction | ASTM D-2047 | 0.7 (wet) 0.8 (dry) |
| Gloss (60 Degrees) | ASTM D-523 | 100 |

Fields of Application

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

Substrate

Substrates must be sound, solid, profiled, and free of materials or contaminants that may act as bond breakers. The substrate must be primed with KOSTER ES. Refer to the respective data sheet.

Application

Over textured floor: Apply material using flat squeegee, then back roll and cross roll.

Over smooth floor: Apply material using a squeegee to desired thickness; follow up by back rolling and cross rolling.

Instructions for KOSTER Chip and Quartz Floors:

Standard installation procedure is a double broadcast application with a top coat:

- Apply a coat of mixed KOSTER MPE-F at approx. 160 sq ft/gal with a flat squeegee. Back roll and cross roll with a 3/8-in epoxy rated non-shed roller. Along edges, the material can be brush applied.
- Broadcast chip or quartz into the fresh, wet KOSTER MPE-F coat. Wearing spiked shoes, walk on the wet epoxy holding a suitable container and broadcast chip or 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 broadcast chip or quartz with spiked shoes. Be sure to keep contaminants out of the chip or quartz. Allow to cure.
- Sweep off the excess chip or quartz using a stiff, clean, dry broom with synthetic bristles.
- Lightly sand the chip or quartz surface in order to remove high spots. Sweep or vacuum the floor to remove all loose particles.
- For second broadcast, mix additional material and repeat steps 1 through 4.
- Install a seal coat over the chip or 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 MPE can be applied as a top coat. An additional MPE top coat can be applied to achieve a smooth surface. KOSTER UTC can be applied to the smooth surface for additional abrasion and UV-resistance.

Coverage

Dependent on application.
Base coat: Approx. 160 sq ft/gal (10 mils)
Seal coat(s): Approx 80-100 sq ft/gal (16-20 mils)

Cleaning

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

Packaging

| | |
|------------|-------------|
| CT 262 003 | 3 gal kit |
| CT 262 007 | 7.5 gal kit |
| CT 262 015 | 15 gal kit |
| CT 262 165 | 165 gal kit |

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.

Storage

Store between 50 °F and 90 °F.

Safety

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.

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 IMPE-FLIED 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

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|---------------------|---------------------|
| KOSTER MPE | Art.-Nr. CT 261 |
| KOSTER MPE-Color | Art.-Nr. CT 263 |
| KOSTER MPE-F-Color | Art.-Nr. CT 264 |
| KOSTER UTC | Art.-Nr. CT 321 |
| KOSTER UTC-Color | Art.-Nr. CT 322 |
| KOSTER UTC-LT | Art.-Nr. CT 323 |
| KOSTER UTC-LT-Color | Art.-Nr. CT 324 |
| KOSTER ES | Art.-Nr. CT 366 |
| KOSTER Color Chips | Art.-Nr. CT 429 |
| KOSTER Color Quartz | Art.-Nr. CT 486 050 |

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