



# KOSTER Turbo Mortar F

## Fine grained, fast setting repair and re-profiling mortar with early high strength development

### Features

KOSTER Turbo Mortar F is a repair, concrete replacement, and re-profiling mortar with exceptional strength development and low shrinkage. The mortar can be mechanically stressed after 60 minutes. The consistency can be modified for vertical or horizontal application. With the addition of KOSTER Turbo additives, mortar characteristics can be optimized for individual jobsite requirements.

### Technical Data

Apply additional layer after (70 °F)	After approx. 30 min.
Compressive Strength (1 hr)	≥ 2400 psi
Compressive Strength (3 hr)	≥ 2900 psi
Compressive Strength (1 d)	≥ 4300 psi
Compressive Strength (7 d)	≥ 5000 psi
Compressive Strength (28 d)	≥ 5800 psi
Flexural tensile strength (7 d)	≥ 430 psi
Flexuraltensile strength (28 d)	≥ 580 psi
Modulus of Elasticity	≥ 2 x 10 <sup>6</sup> psi
Shrinkage	≤ 0.05 %
Mixed density	Approx. 120 pcf
Layer thickness	Feather edge to 3/4-in
Pot life (70 °F)	Approx. 15 min.

### Fields of Application

KOSTER Turbo Mortar F is designed for interior and exterior concrete repairs. It is especially suited for time-sensitive applications such as:

- Repair of industrial floors during continued operation
- Repair of streets and driveways
- Repair and re-profiling of architectural concrete
- Repair of bridges and infrastructure for fast re-opening

### Substrate

The surface must be sound, solid, free of oil, grease, old adhesive, and dust or other residue that would inhibit bond. The pull off strength of the substrate must be at least 215 psi. Before application, dampen the substrate. Avoid standing water. Absorptive and salt contaminated substrates must be primed with KOSTER Polysil TG 500.

### Application

Mix each 55 lb bag of KOSTER Turbo Mortar F with 4.2 - 4.75 qts of water. Add 3/4 of the water to a mixing vessel. Add the powder slowly while constantly mixing with an electrical mixer and a helical paddle. Mix to a homogenous, lump free consistency. Add water to achieve the desired consistency. Mix for at least 3 minutes.

### Additives per 55 lb bag of KOSTER Turbo Mortar F

#### KOSTER Turbo Retarding Agent 22.5 g

Add to freshly mixed mortar. 1 unit increases pot life by approx. 20 minutes. Add a maximum of 3 units.

#### KOSTER Turbo Super Plasticizer 65 g

Mix 4.2 qts of water with the 55 lb bag of KOSTER Turbo Mortar F. Slowly add the KOSTER Turbo Super Plasticizer while mixing until a flowable consistency has been reached. Mix at least 3 minutes. The material will develop a flowable consistency. If a more self-leveling consistency is required, up to 0.5 quarts of water may be added. Apply the material immediately after mixing.

#### KOSTER Turbo Corrosion Protection 100 g

For direct contact with metal. Mix a maximum of 4.75 qts of water with the 55 lb bag of KOSTER Turbo Mortar F. Slowly add the KOSTER Turbo Corrosion Protection while mixing until a homogenous mix is achieved.

#### KOSTER Turbo Binding Agent

For large areas such as early high-strength underlayments, KOSTER Turbo Binding Agent can be mixed with sand on site.

### Aftertreatment

If necessary, the freshly set material may be covered in polyethylene sheeting to aid curing. Avoid premature surface drying in warm or windy conditions.

### Coverage

Approx. 0.5 cubic ft per bag.

### Cleaning

Clean tools immediately after use with water.

### Packaging

C 516 025 55 lb bag

### Storage

Store in a cool, dry place. In originally sealed packaging, the material can be stored for a minimum of 6 months.

### Safety

Consult Safety Data Sheet. Always wear proper personal protective equipment when handling this product.

### Limited Warranty

KOSTER warrants that its product shall be in accordance with the specifications published in the current revision of the products data

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.



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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.

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