



KOSTER WP Mortar

Waterproof, fiber-reinforced fast-setting cementitious reprofiling mortar

Features

KOSTER WP Mortar is a waterproof, trowel-applied, fiber-reinforced fast-setting cementitious mortar for reprofiling surfaces. It is resistant to pressurized water when applied in a layer thickness of 5/32" (4 mm). It cures quickly and is characterized by high pressure and abrasion resistance, high chemical resistance, and resistant against salts in the substrate.

Technical Data

Density of the fresh mortar	15.02 lb/gal (1.8 kg/l)
Compressive strength after 7 days	>6400 psi (>44 N/mm ²)
Compressive strength after 28 days	>7000 psi (>48 N/mm ²)
Flexural tensile strength after 7 days	>650 psi (>4.5 N/mm ²)
Flexural tensile strength after 28 days	>725 psi (>5 N/mm ²)
Tensile strength	>215 psi (>1.5 N/mm ²)
Pot life	approx. 20 min.
Ideal application temperature	40-86°F (2-30 °C)
Max. aggregate size	approx. 0.5 mm
Maximum layer thickness	1.2" (appr. 3 cm)
Hydraulic Conductivity (CRD-24 48-92)	Impervious

Fields of Application

For area waterproofing in new construction and for the renovation of concrete, masonry, or cement plaster in wet rooms, basements, tanks, shafts, etc. KOSTER WP Mortar is also suitable for the subsequent inside waterproofing against negative pressure in areas such as basements and underground parking lots. It is not intended for stopping active leakages.

KOSTER WP Mortar may also be used as a slurry waterproofing. For this mix one 50 lb bag with 5.5-6 quarts of clean potable water. Ideally the slurry is applied with a KOSTER NB 1 Brush for slurries. It can also be spray applied with an appropriate spraying device.

Substrate

The cementitious substrate surface must be open pored, sound, clean, and free of oil and grease. Dusty and salt burdened substrates are treated with KOSTER Polysil TG 500.

When installing mortars, substrate preparation is of vital importance. Pre-wet all cementitious substrates before the installation of KOSTER WP Mortar. The surface near pore structure must be saturated, (avoiding standing water and puddles) so that it does not absorb water from the applied mortar.

Application

Mixing: Mix 4-5 quarts of clean potable water into a clean mixing vessel for each 50-lb bag. Do not over-water! Mix with an electrical mixer equipped with a suitable helical or egg-beater style mixing paddle at 600-700 rpm. After all material has been added into the mixing water, continue mixing for 2 to 3 minutes. The resulting consistency must be smooth and lump free.

Application: Apply the mortar using customary mason's tools. KOSTER WP Mortar is applied in several layers (at least two). Avoid entraining air pockets into the mortar. Mixed to the proper consistency, the mortar may also be cast onto the surface or sprayed with suitable equipment.

KOSTER WP Mortar may also be used as a slurry waterproofing. For this mix one 50 lb bag with 5.5-6 quarts of water. Ideally the slurry is applied with a KOSTER NB1 Brush for slurries. It can also be spray applied with a mechanical spray pump, such as a peristaltic or rotor stator pump.

For the application of a rounded fillet, we suggest mixing 4-4.5 quarts of fresh water per 50 lb bag.

Aftertreatment

Curing can be aided by covering the set material with polyethylene sheets. This increases the availability of water for hydration and reduces surface shrinkage tension especially when the material has been applied in thick layers.

Coverage

Approx. 15 lb/gallon void (1.8 kg/l) 9.36 lb/sq. ft/in layer thickness (18 kg/sq. m/cm)

15 lb/gallon void (1.8 kg/l) 9.36 lb/ft²/in layer thickness (18 kg/m²/cm).

Cleaning

Clean tools immediately after use with water.

Packaging

W 534 025

55 lb bag

Storage

Store the material in a dry environment. In originally sealed packages, the material can be stored for a minimum of 12 months.

Safety

Wear protective gloves and goggles when processing the material. Observe all governmental, state, and local safety regulations while processing the material.

Eye contact – Flush immediately with water and consult physician.

Do not rub eyes.

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

Skin contact – Wash off immediately with soap and water.

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 Betomor Multi A	Art.-Nr. C 500
KOSTER C-Coat	Art.-Nr. C 510 025
KOSTER Repair Mortar NC	Art.-Nr. C 535 025
KOSTER NB 1 Grey	Art.-Nr. W 221 025
KOSTER Repair Mortar	Art.-Nr. W 530
KOSTER Repair Mortar Plus	Art.-Nr. W 532
KOSTER SB Bonding Emulsion	Art.-Nr. W 710

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 AMERICAN CORPORATION | 2585 Aviator Drive | Virginia Beach, VA 23453
Phone (757) 425-1206 | Fax (757) 425-9951 | info@kosterusa.com | www.kosterusa.com