




## KÖSTER WP Mortar

Technical Data Sheet W 534 025

Issued: 2022-10-25

- MFPA Leipzig - Test report 5.1/13-580 - Testing for negative pressure
- AMPA Bremen - Test report 50758-14 - Test for mortars as a negative side waterproofing of construction members
- MFPA Leipzig - Test report PB 5.1/21-502-1-r1 - Test WTA leaflet 4-6 interior waterproofing, from May 4th, 2022, 28 days at 7.5 m water pressure

## Watertight, trowel applicable and fiber reinforced fast setting mineral reprofiling mortar

	<b>KÖSTER BAUCHEMIE AG</b> Dieselstraße 1-10, 26607 Aurich 19 W 534 <b>System 4 EN 1504-3:2005 ZA.1a</b> For structural and non structural repair for concrete Applying mortar by hand (3.1)
	Compressive strength $\geq 10$ MPa (Class R1) Chloride ion content $\leq 0.05$ % Adhesive bond 0.8 MPa Restrained shrinkage/expansion NPD Carbonation resistance NPD Modulus of Elasticity NPD Temperature change resistance NPD Grip NPD Coefficient of thermal expansion NPD Capillary water uptake NPD Reaction to fire NPD

### 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.

KÖSTER Repair 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.

KÖSTER WP Mortar can also be used as a slurry waterproofing. For this mix one 25 kg bag with 6.5 - 6.8 liters of water. Ideally the slurry is applied with a KÖSTER NB 1 Brush for slurries. It can also be spray applied with an appropriate spraying device.

### Substrate

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

When installing mortars substrate preparation is of vital importance. Pre-wet all mineral substrates before the installation of KÖSTER 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.

### Features

Tested and certified according to WTA leaflet 4.6 (internal waterproofing) up to 7.5 m water column - negative water pressure.



KÖSTER WP Mortar is a watertight, trowel applicable, fiber reinforced fast setting mineral mortar for reprofiling surfaces. It is resistant to pressurized water when applied in a layer thickness of 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	1.8 kg / l
Compressive strength after 7 days	$> 35$ N / mm <sup>2</sup>
Compressive strength after 28 days	$> 50$ N / mm <sup>2</sup>
Flexural tensile strength after 7 days	$> 6$ N / mm <sup>2</sup>
Flexural tensile strength after 28 days	$> 7$ N / mm <sup>2</sup>
Tensile strength	$> 1.5$ N / mm <sup>2</sup>
Pot life	approx. 20 min.
Ideal application temperature	+ 2 °C to + 30 °C
Max. aggregate size	approx. 0.5 mm
Maximum layer thickness	approx. 3 cm
Resistant to negative water pressure	up to 3 m

### Application

#### Mixing

Mix 25 kg of KÖSTER WP Mortar with 5 – 5.5 l of water. Mix the mortar to a trowelable and firm consistency. Mix until a homogeneous, lump-free consistency is reached. Mixing time is 3 minutes.

#### Application

Apply the mortar using customary mason's tools. Generally KÖSTER WP Mortar is applied in several layers, (at least two). Avoid entraining air pockets into the mortar. Mixed to the proper consistency the mortar can also be cast onto the surface or sprayed with suitable equipment such as the KÖSTER Peristaltic Pump. In addition to the KÖSTER Peristaltic Pump, processing can be carried out with any screw pump from b&m, e.g. BMP 7, hose 10 m, 3/4 " ; spray lance case; nozzle 8.5 or 10.5 mm; motor power 1 gear, speed 10%.

For the application of a rounded fillet we suggest mixing 5 l of fresh water per 25 kg bag.

KÖSTER WP Mortar can also be used as a brushable waterproofing slurry. For this add 6.5 - 6.8 liters of fresh water. Use a KÖSTER NB 1 Brush for Slurries.

#### 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

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been applied in thick layers.

### Consumption

Approx. 1.8 kg / l void, 18 kg / m<sup>2</sup> per cm layer thickness

### Cleaning

Clean tools immediately after use with water.

### Packaging

W 534 025 25 kg 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.

Skin contact – Wash off immediately with soap and water.

### Related products

KÖSTER Betomor Multi A	Prod. code C 500
KÖSTER C-Coat	Prod. code C 510 025
KÖSTER Repair Mortar NC	Prod. code C 535 025
KÖSTER Repair Mortar R4	Prod. code C 536
KÖSTER NB 1 Grey	Prod. code W 221 025
KÖSTER Repair Mortar	Prod. code W 530 025
KÖSTER Repair Mortar Plus	Prod. code W 532 025
KÖSTER SB Bonding Emulsion	Prod. code W 710

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