



KOSTER KD 2 Blitz Powder

Stops flowing water in seconds. Highly reactive powder with a very short reaction time. System component 2 of the KOSTER KD System

Features

The environmentally friendly KOSTER KD System stops active water ingress and safely seals off pressurized water from the negative side. It is resistant to salts which are harmful to the building structure and to aggressive substances which are present in the ground. Salts will not detach the fully cured KOSTER KD System coating from the substrate.

The system consists of 3 products:

KOSTER KD 1 Base

Fast curing mineral sealing slurry with excellent resistance to aggressive ground water and high water pressure.

KOSTER KD 2 Blitzpowder

Highly reactive powder with extremely short setting time. With application of the dry powder, active water leaks are sealed within seconds.

KOSTER KD 3 Sealer

Extremely low viscosity silicifying liquid. The active ingredients penetrate deeply into the substrate and react to form an insoluble compound. The pores are plugged and permanently sealed through the mineralization process.

Technical Data

KOSTER KD 1 Base

Density of the fresh mortar	100 lb/ft ³ (1.6 kg/l)
Compressive strength (7 days)	>1800 psi (>13 N/mm ²)
Flexural tensile strength (7 days)	>500 psi (>3.5 N/mm ²)
Setting time (68°F (20°C), 65 % rel. humidity)	approx. 5-15 min.

KOSTER KD 2

Setting time (when sealing active leaks)	approx. 20 sec.
Largest aggregate size	< 0.008 in (< 0.2mm)
KOSTER KD 3 Sealer	
Density (68°F (20°C))	10 lb/gal (1.2 g/cm ³)
Reaction time (68°F (20°C), 65 % relative humidity)	2 - 3 hours

KOSTER KD System

Waterproof against pressurized water	100 psi (~7 bar (negative side))
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Fields of Application

For waterproofing basements from the inside, waterproofing manholes, as well as for all other waterproofing against non-pressurized and pressurized water from the positive or the negative side on mineral substrates.

KOSTER KD 2 can also be used for sealing and closing cracks prior to

the use of injection resins.

Substrate

The substrate must be sound, solid, and free of oil, paint, and loose particles. Plaster and similar products must be removed down to the solid base building material (masonry/concrete). Masonry joints must be raked out 3/4-in deep. Dry substrates must be wetted thoroughly before application of the materials. Fill holes and open joints with KOSTER Repair Mortar or KOSTER Waterstop. On CMU or on softer vertically perforated brick, apply a sound plaster of KOSTER Repair Mortar.

Unsuitable substrates are:

- Lime-containing plasters
- Paint coatings
- Gypsum-based building materials

Application

The three components of the KOSTER KD System are applied according to the instructions below in case of area waterproofing against pressurized water from the negative side. If active leaks (from dripping leaks to flowing water) must be waterproofed, first the flow of water must be stopped before the area waterproofing can be applied. For this purpose, KOSTER KD 2 can be used.

Stopping active leaks

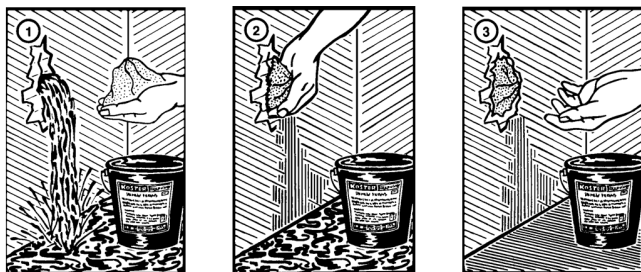
Depending on the intensity of the active leak, a sufficient amount of dry powder is applied by hand directly to the active leak without adding any extra water. In case of small active leaks where water slowly drips from the wall, the powder is rubbed firmly onto the surface until the leakage is stopped.

In areas with stronger leaks including an active water spout, a larger amount of KOSTER KD 2 is pressed into a ball between both hands, compressing as much air out as possible.

The "ball" is firmly pressed onto the leak. After a few seconds the leak should be stopped.

We suggest using smooth rubber gloves when processing KOSTER KD 2.

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.



Leaks... ..stopped... ..in seconds!

After stopping the active leaks, the area can be waterproofed. Mix as much KOSTER KD 1 Base as can be applied within 5-10 minutes with water into a viscous, spreadable mass (slurry). Apply the slurry onto the substrate using a KOSTER Brush for Slurries.



Then immediately rub KOSTER KD 2 Powder into the fresh, moist slurry by hand until the surface is dry.



Without waiting, brush on KOSTER KD 3 Sealer Liquid with a brush for liquids.



Immediately afterwards and again after approx. 30 minutes, repeat step 1, (application of the KOSTER KD 1 Base).



Area waterproofing

After stopping the active leaks, the area can be waterproofed: Pre-wet the application area until the surface near pores are saturated. The three components of the KOSTER KD System are applied according to the instructions below in case of area waterproofing against pressurized water from the negative side. The maximum total thickness must be less than 4 mm.

Application of a finish layer on walls

A layer of plaster key made from a KOSTER Restoration Plaster Key (50% area coverage) can be applied after 24 hours.

After another 24 hours, KOSTER Restoration Plasters can be applied.

Application of the next layer on floors

Prior to installing screeds, apply a cementitious bonding bridge made from 55lb (25kg) KOSTER NB 1 Grey mixed with 6.3 quarts (6L) of water and 1.5 kg KOSTER SB Bonding Emulsion. Apply the bonding bridge with a KOSTER NB 1 Brush for slurries.

Sealing of joints, cracks, and pipe penetrations

Elastic sealing (with KOSTER Joint Sealant FS):

1. Prior to the application of the area waterproofing, cut grooves into the masonry/concrete along the course of cracks, connections, etc. Width and depth should be approx. 3 cm or more in cases where strong movements or high water pressure is expected.
2. In the course of applying the area waterproofing, the KOSTER KD System is applied also into the grooves which were cut to open cracks and connections.
3. After a minimum of 24 hours after application of the KOSTER KD System, the side-flanks of the joints (only these) are primed with KOSTER FS Primer 2C. Cover the back of the joint with tape or a foam cord, as bonding to three flanks has to be absolutely avoided.
4. Fill the joints after approx. 3 hours curing time with KOSTER Joint Sealant FS-V according to the Technical Guideline.

Plastic sealing (with KOSTER KB Flex 200 Sealing Paste):

1. Proceed in the same way as with elastic joint sealing, but with a minimum joint depth of 10 cm.
2. Proceed with the KD System in the same way as with elastic joint sealing.
3. After a minimum of 24 hours after the application of the KOSTER KD System, the prepared areas are filled with KOSTER KB Flex 200 to approx. 10 mm below the surface.
4. Level off the sealed crack flush with KOSTER KB Fix 5.

Aftertreatment

In case the substrate removes the water from the freshly applied material too quickly or it dries prematurely from sun, wind, or heat, mist spray the KD System so that it remains dark.

Coverage

Approx. 0.2-0.4 lb/sq ft

Cleaning

Clean tools immediately after use with water.

Packaging

W 512 007	7.5 kg bucket
W 512 015	33 lb bucket

Storage

Store the material in a cool, frost free and dry environment. In originally sealed containers, the material can be stored for a minimum of 12 months.

Safety

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

Warranty

KOSTER warrants that its product shall be in accordance with the

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Waterproofing Systems

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Related products

KOSTER KB-FIX 5	Art.-Nr. C 515
KOSTER FS Primer 2C	Art.-Nr. J 139 200
KOSTER Joint Sealant FS-V	Art.-Nr. J 231
KOSTER KB-Flex 200	Art.-Nr. J 250
KOSTER Restoration Plaster White	Art.-Nr. M 662 025
KOSTER KD 1 Base	Art.-Nr. W 211
KOSTER KD System	Art.-Nr. W 219
KOSTER NB 1 Grey	Art.-Nr. W 221 025
KOSTER KD 3 Sealer	Art.-Nr. W 313
KOSTER Repair Mortar	Art.-Nr. W 530
KOSTER Waterstop	Art.-Nr. W 540 015
KOSTER SB Bonding Emulsion	Art.-Nr. W 710
KOSTER NB 1 Brush for slurries	Art.-Nr. W 913 001

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