



KOSTER KD System

Negative side waterproofing against active leaks

Features

The KOSTER KD System stops active water ingress and seals against pressurized water from the negative side. It is resistant to salts and aggressive substances 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 Blitz

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

KOSTER KD 3 Sealer

Extremely low viscosity silicifying liquid. The active ingredients penetrate 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	13.35 lbs/gal
Compressive strength (7 days)	≥ 1880 psi
Flexural strength (7 days)	≥ 500 psi
Setting time (70°F, 65% RH)	Approx. 15 min

KOSTER KD 2 Blitz

Setting time (sealing active leaks)	Approx. 20 sec
-------------------------------------	----------------

KOSTER KD 3 Sealer

Density	10 lb/gal
Reaction time (70°F, 65% RH)	Approx. 2-3 hrs

KOSTER KD System

Waterproof, negative side	≥ 100 psi
---------------------------	-----------

Fields of Application

The KOSTER KD System can be used for waterproofing against pressurized or non-pressurized water from the positive or negative side. KOSTER KD 2 Blitz can also be used for sealing and closing cracks before injecting with KOSTER 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

If active leaks (from dripping leaks to flowing water) are present, the flow of water must first to be stopped with KOSTER KD 2 Blitz before the area waterproofing can be applied.

Stopping active leaks:

In case of small active leaks where water slowly drips from the wall, the KD 2 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, removing as much air as possible. Press the material firmly onto the leak. After a few seconds, the leak should be stopped. Wear smooth nitrile or latex gloves.

Area waterproofing:

After stopping active leaks, the area can be waterproofed. Mix as much KOSTER KD 1 Base as can be applied in 10 minutes with water into a viscous, spreadable slurry. Approximately 1.85 gallons of water are required per 50 pounds of KOSTER KD 1 Base. Apply the slurry onto the substrate with a firm mason's brush. Immediately rub KOSTER KD 2 Blitz into the fresh, moist slurry by hand until the surface is dry. Without waiting, brush on KOSTER KD 3 Sealer. Immediately afterwards and again after approx. 30 minutes, repeat application of the KOSTER KD 1 Base. The maximum total thickness must be less than 1/8-in.

Application of a finish layer on walls:

A plaster key coat of KOSTER Restoration Plaster (50% area coverage) can be applied after 24 hours. After another 24 hours, KOSTER Restoration Plaster can be applied.

Application of the next layer on floors:

Before installing screeds, apply a scrub coat of 50 lbs of KOSTER NB 1 Grey mixed with 6.5 qts of water and 2 qts of KOSTER SB Bonding Emulsion. Apply the scrub coat with a brush.

Sealing of joints, cracks, and pipe penetrations:

Elastic sealing: (with KOSTER Joint Sealant FS)

1. Before application of the area waterproofing, cut grooves into the masonry/concrete along the course of cracks, connections, etc. Width and depth should be approx. 1 in or more in cases where strong movements or high water pressure is expected.
2. While applying the area waterproofing, the KOSTER KD System is also applied into the grooves which were cut.
3. A minimum of 24 hours after application of the KOSTER KD System,

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.

