

KÖSTER

Waterstop

Technical guideline / Article number **3.14**

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Expanding, fast curing plugging mortar for sealing water leakages

Features

KÖSTER Waterstop is a fast curing, expanding plug and repair mortar. Through the fast curing and the slight expansion of the curing mortar, an intensive contact between the existing substrate and the mortar is achieved. This way, even cracks bearing pressurised water and water leakages can be sealed fast.

Technical data

Density of fresh mortar	1.9 kg / l
Compressive strength (after 24 hours)	1.5 N / mm ²
Compressive strength (after 7 days)	> 4.0 N / mm ²
Flexural tensile strength (after 7 days)	> 1.6 N / mm ²
Starts to cure after	approx. 30 sec.
Application of following layer after	approx. 3 hours
Expansion	approx. 0.5 Vol.-%

Field of application

KÖSTER Waterstop can be used to seal water leakages in concrete, masonry and natural stone structures quickly. The material can also be used to form fillets which are subject to pressurised water, to seal slotted walls, manholes, cable and pipe penetrations, and to subsequently seal damaged pipe joints in canal construction even if they are exposed to pressurised water.

Substrate preparation A solid, sound and clean substrate is the precondition for a permanently safe waterproofing. The area to be waterproofed may not be subject to movements. Remove the material around leakages at least 2 cm deep. Dry substrates have to be wetted thoroughly with water.

Application

Mix KÖSTER Waterstop with approx. 220 ml / kg of clean water homogeneously into a stiff mortar. Due to the fast curing, we recommend to prepare only small amounts at a time.

In case of leakages, the pre-stiffened mortar is pressed by hand into the cavity and then pressed on firmly for approx. 1 – 2 minutes (until cured). If temperatures are low, the curing time can be accelerated by pre-warming (hand-warm) the mixing water. Substrate temperature and surrounding temperature should not be below + 5°C.

In order to prevent the escape of moisture from the area surrounding the leakage, it is recommended to coat this region with KÖSTER NB 1 Grey (min. 40 cm radius around the leakage) (consumption approx. 4.0 kg / m²).

If the substrate is heavily damaged by salt and moisture, the surface should be coated using the KÖSTER KD System.

Consumption

Approx. 2 kg / l void

Cleaning of tools

Clean tools immediately after use with water.

Trading units

15 kg bucket

Storage

Store the material dry. In originally sealed packages, it can be stored for approx. 6 month.

Safety

Wear protective goggles and gloves.

Technical guidelines cited

KÖSTER KD System	Art. No.	3.01
KÖSTER NB 1 grey	Art. No.	3.021

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 proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for 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 exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.

Delta Membrane Systems Ltd, Delta House, Merlin Way, North Weald, Epping, Essex, CM16 6HR.

Telephone : 01992 523523 Fax : 01992 523250

Email : info@deltamembranes.com www.deltamembranes.com