



## KÖSTER CFR 1

Technical Data Sheet / Prod. code W 220 023

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### Hot applied, highly elastic bitumen / rubber compound

#### Features

KÖSTER CFR 1 is a rubber-elastic hot applied adhesive compound with a bitumen / rubber basis with excellent adhesion to all dry, mineral, and bituminous substrates. Waterproofing carried out with KÖSTER CFR 1 can bridge cracks and joints flawlessly. The resistance of the substrate against mechanical damage is increased considerably.

KÖSTER CFR 1 is resistant to pressurized water up to 50 bar.

#### Technical Data

Basis	bitumen / rubber
Color	black
Density	1.00 – 1.02 g / cm <sup>3</sup>
Consistency at + 20 °C	solid
Application temperature	approx. + 150 °C – + 180 °C
Viscosity	approx. 1.300 mPa*s at + 160 °C approx. 700 mPa*s at + 180 °C
Ductility at + 25 °C	approx. 2000 %
Elastic retraction at + 20 °C	95 %
Elastic retraction at 0 °C	60 %

#### Fields of Application

KÖSTER CFR 1 can be used for elastic, crack-bridging waterproofing against pressurized water on all mineral substrates as well as on wood and metal. It is also suitable as a joint sealing compound for expansion joints.

#### Substrate

The substrate has to be dry, clean, and free of contaminants and loose particles. Joints and surfaces must be absolutely clean and dry. Joint flanks must also be absolutely dry. If there is any moisture or condensation it will cause the material to spit and bubble, even small amounts will vaporize immediately upon contact with the hot material and a proper bond to the asphalt will not be achieved. This includes substrates in cold temperatures; the hot material can cause condensate when hitting the substrate which will immediately vaporize.

#### Application

Heat KÖSTER CFR 1 in a bitumen boiler equipped with a stirring device to + 150 °C. The boiler should be equipped with a thermostat. This equipment should only be operated by experienced workers. Heating the material above + 180 °C must be absolutely avoided since this would damage the rubber part of the compound. If yellow vapor begins to appear above the material it is nearing its flashpoint! KÖSTER CFR 1 is usually applied on an area by pouring the material out onto the surface using a bitumen watering can, pot, or bitumen bucket and by spreading it out over the entire surface to be waterproofed using a brush or a broom or by pouring it into joints.

The joint should have a depth greater than its width, absolute minimum is 1:1 but 3-4 times deeper than it is wide is better. Large elastic joints of any material may be damaged by point loads such as metal forklift wheels or pose a risk to wearers of high heels. It may be necessary to mechanically protect the joint, such as with a metal plate.

#### Consumption

Approx. 1 kg/m<sup>2</sup>; per mm layer thickness

#### Cleaning

After the material has cooled down, clean with KÖSTER Universal Cleaner.

#### Packaging

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23 kg block in a cardboard box

#### Safety

Observe safety precautions for the application of hot bitumen products. Apply only in well ventilated areas.

#### Related products

KÖSTER Universal Cleaner

Prod. code X 910 010

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.