



## KÖSTER VE

Technical Data Sheet CT 286 006

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### Solvent free vinyl ester mortar for heavy duty corrosion protection

	KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich 13 CT 286 EN 13813:2002 KÖSTER VE Synthetic resin for internal uses
Reaction to fire Release of corrosive substances Water permeability Wear resistance Bond strength Impact resistance Sound insulation Sound absorption Thermal resistance Chemical resistance Dangerous substances	Eff a) SR NPD $\leq$ AR 0.5 $\geq$ B 2.0 Class 1 NPD NPD NPD NPD NPD

#### Features

KÖSTER VE is a vinyl ester mortar with very good adhesion to all mineral substrates and to stainless steel. The material can resist high mechanical and chemical stresses.

#### Technical Data

Consistency	trowel applicable
Mixing ratio (by weight)	6 : 1 (A : B)
Pot life (1 kg of mixed material)	at + 12 °C / 50 minutes at + 23 °C / 30 minutes
Density	2.25 g / cm <sup>3</sup>
The final mechanical and chemical strength is reached after 7 days (at + 23 °C and 65 % rel. humidity).	
Color	light grey
Application temperature	min. + 5 °C min. + 3 °C above dew point
Compressive strength (28d)	> 53 N/ mm <sup>2</sup>
Adhesive tensile strength to concrete (C50/60)	> 4.0 N/ mm <sup>2</sup>
Adhesive tensile strength to Steel (Modulus of elasticity 190 kN/ mm <sup>2</sup> , 2mm thick, Sa 2 1/2)	> 2 N/ mm <sup>2</sup>
Thickness per Layer	min. 2 mm, - 20 mm
Consumption	2.25 kg / m <sup>2</sup> per mm thickness

#### Fields of Application

KÖSTER VE is a protective coating for mineral substrates and for stainless steel. It is suitable as a filling and levelling mortar for concrete. KÖSTER VE is perfectly suited for the protection of surfaces in facilities with high chemical and mechanical demands on the coatings, such as agricultural concrete elements, waste treatment plants, and chimneys.

#### Substrate

The substrate must be dry, solid, and free of loose particles and bond inhibiting substances such as oil and grease. Soiled and power

troweled mineral substrates must be prepared by grinding the surface down to a solid layer and by subsequent shot- or sandblasting. Clean off dust completely.

When applying to a mineral substrate prime with KÖSTER LF-BM, when high substrate moisture or alkalinity is expected first apply KÖSTER VAP I 2000 according to the Technical Data Sheet.

Steel substrates must be sandblasted according to DIN EN ISO 12944-4 (min. Sa 2 ½ surface, average roughness RY5 50 µm). Weld beads must be removed and edges rounded.

#### Application

Mixing time is 3 minutes. Mix the components intensively until a homogenous consistency and color is reached. Use a slow rotating electrical mixer (below 400 rpm). In order to avoid mixing errors mix for 2 minutes, repot the material and then mix for 1 minute. Make sure to mix in any material which sticks to the sides of the mixing vessel.

When used as a corrosion protection KÖSTER VE is always applied in two layers, (total 2 mm). The material can be applied with a steel plastering trowel. The waiting time between the applications of subsequent layers should not exceed 1 hour. The consumption should be at least 2.25 kg/m<sup>2</sup> per layer. The temperature must be at least + 3 °C above the dew point at the time of application and for 24 hours afterwards.

#### Consumption

Approx. 4.5 kg / m<sup>2</sup> (2 mm layer tickness)

#### Cleaning

Clean tools immediately after use with KÖSTER Universal Cleaner.

#### Packaging

CT 286 006 6.47 kg combipackage; component A 6 kg; component B 0.47 kg

#### Storage

Store the material frost free at temperatures between + 5 °C and + 25 °C. 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.

#### Related products

KÖSTER LF-BM	Prod. code CT 160
KÖSTER VAP I 2000	Prod. code CT 230
KÖSTER VAP I 2000 FS	Prod. code CT 233
KÖSTER VAP I 2000 UFS	Prod. code CT 234
KÖSTER Corrosion Protection	Prod. code CT 283 006
KÖSTER Bridge Coat	Prod. code CT 284
KÖSTER KB-Pox Thickening Agent	Prod. code CT 764
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.