

KÖSTER VAP® I 2000

Technical guideline / Article number **6.035**

Issued: 01st November 2005 Draft

- Official test certificate: Report of Water Transmission Test, Law Project Number 50160-0-3481.01.832 (LAW Engineering, Inc. Atlanta / USA)

2 component solvent free system resin for avoiding the formation of osmotic bubbles under coatings and coverings and for alkalinity barriers

Features

KÖSTER VAP® I 2000 is able - due to its very high interlacing density - to reduce the accumulation of water vapour so far, that synthetic resin coatings, synthetic resin adhesives and plastic coverings are not pushed off the substrate. The material displays a good resistance to water / sewage, mineral oil, salt solutions and diluted acids. Due to its high compressive strength and its low modulus, KÖSTER VAP® I 2000 should not be used in areas which are exposed to high temperature fluctuations (e. g. outside).

Technical Data

Consistency	low viscous
Mix ratio	1.85 : 1, A : B (by volume)
Density of the mixed material	1.09 g / cm ³
Pot life at 23 °C	approx. 20 min.
Solids content	100%
Flash point	> 200 °C
Curing time at +20 °C	approx. 12 hours
Mechanical and chemical final strength	after 7 days
Application/processing temperature	10 – 30 °C
Max. relative humidity during application/processing	80 %
Earliest water resistance	after 24 hours / 20 °C
Compressive strength	approx. 65 N / mm ²
Storage temperature	10 – 25 °C

Field of application

KÖSTER VAP® I 2000 is a special resin for application on unsealed concrete floors on the inside (e. g. industrial- and multi-purpose-halls, sales rooms) which are exposed to moisture from the backside e. g. because of missing waterproofing of concrete structural members which have ground contact. It protects against high concrete alkalinity (pH 13 – 14) and serves as a primer by reducing the water vapour diffusion prior to the application of epoxy- or polyurethane-resin coatings or respectively the adhesion of vapour tight floor coverings (e. g. PVC).

Surface Preparation:

KÖSTER VAP® I 2000 is used to seal concrete surfaces. The minimum age of the concrete surface to be sealed must be 7 days. The surface to be sealed must be clean, free of dust,

absorbent, free of oil and grease and other substances that reduce adhesion. Any kind of surface contamination like adhesives, coatings, curing compounds, efflorescence, dust, grease, oils, etc., have to be removed completely by high pressure water cleaning or by sand or shot blasting. Smooth concrete surfaces must be roughened by sand or shot blasting. The substrate must have a minimum adhesive tensile strength of 1.5 N / mm².

Application

The two components of KÖSTER VAP® I 2000 are mixed using a mechanical stirring device (below 400 rpm) until a homogeneous consistency is reached. To avoid defects due to insufficient mixing, replot the material and mix it again.

KÖSTER VAP® I 2000 is applied evenly with a roller in 2 coats. The building of puddles must absolutely be avoided! The second coat is applied between 12 and 24 hours after the first coat.

After a waiting time of min. 12 hours, subsequent work steps such as the application of seals or coatings or coverings can be carried out. In order to avoid inclusions of air, please use only solvent- or respectively water-free adhesives (100 %).

Consumption

Depending on the substrate approx. 300 to 500 g / m² (150 to 250 g / m² per coat).

Cleaning of tools

Immediately after use with KÖSTER KB-Pox® Cleaner A.

Packaging

25 kg combi package

Storage

Store the material at 10 to 25 °C. If stored in originally sealed containers, the material can be stored for approx. 1 year.

Technical guidelines cited

KÖSTER KB-Pox® Cleaner Art. Nr. 9.08

The accurate and thereby effective and successful application of our products is not subject to our control. The guarantee can therefore only be applied to the quality of our products within the scope of our terms and conditions, not, however, for their effective and successful application. These guidelines replace all previous ones.