AKEMI®

VDF - Sanitary Sealing System

Technical Instruction Sheet

The tried and tested, flexible **VDF-Sanitary Sealing System** (Primer - Sealing Tape - Liquid Film) for the professional sealing of surfaces under tiling, natural stone surfacing and flagging in **sanitary and humid rooms**.

* FLEXIBLE - SOLVENTLESS - UNPLASTICIZED - COMPATIBLE WITH SILICONE *

Properties and areas of application:

Primer: Solventless, highly fluid, synthetic resin dispersion primer on the basis of butadiene for more or less absorbent bases. It is a very good adhesion promoter for the following coating of liquid film and can be applied to almost all mineral bases, to mastic asphalt, plasters, plasterboard etc.

Sealing tape: 0.6 mm thick, elastic, fabric-reinforced tape on the basis of an unplasticized acrylic dispersion with a fabric margin projecting on both sides. It is absolutely compatible with silicone and has excellent elasticity. Areas which are liable to cracks and fissures can be reinforced reliably and without transition. Gives security in corners where cracks and joints have to be bridged and when pipe bursts and drains have to be sealed in sanitary and humid rooms.

Liquid film: Ready-to-use, solventless sealing material on the basis of synthetic latex which can be applied with the brush or the roller. It bridges cracks and, when it is dry, it is impervious to water but not to water vapour. It is a flexible synthetic resin dispersion for the professional sealing of vertical as well as horizontal surfaces under tiling, natural stone surfacing and flagging in sanitary and humid rooms.

Technical specifications:

Primer:	colour	milky blue
	density	1.1 g/cm³
	pH value	8.5 - 10
	working temperature	+5° C to +25° C
Sealing tape:	colour	grey
	breaking strength	7.5 N/mm²
	elasticity	58 %
	water vapour diffusion resistance coefficient	1.5 μ
	equivalent air layer thickness $_{sd}$	0.9 m
	temperature stability	-18° C to +70° C
	resistant towards the following for short periods of time: heating oil, petrol and most diluted acids and lyes.	
Liquid film:	colour	grey
	density	approx. 1.5 g/cm³
	viscosity	approx. 15,500 mPa.s
	solids content	approx. 75 %
	pH value	8.5 - 9.5 %
	working temperature	+5° C to + 25° C

Preparing the undersurface and instructions for use:

Primer: The undersurface must be free of oil, grease, dust and algae. It must also be dry, firm, even and stable. The remains of old glue and primer as well as anything which may be loose must be removed before application. Before use the primer must be stirred well. Then it is to be evenly applied with either a brush or lambskin roller. Allow sufficient time for evaporation.

Sealing tape: After the primer in the area for the sealing tape has dried, apply a coat of liquid film which is approximately 5 cm wider than the area to be covered with tape. Remove the protective strip from the tape, lay the latter onto the wet liquid film and then press. Take care that the strips of sealing tape overlap at least 5 cm. Then coat the tape two or three times with the liquid film. The sealing tape is absolutely compatible with all the usual commercially available solventless tiling mortars, can be used in conjunction with them and provides for a strong bond. The sealing tape is compatible with silicone and a migration of plasticizer does not have to be feared.

Liquid film: The condition of the undersurface must be the same as in the case of the primer. In the event of absorbent undersurfaces, the primer must be applied first in order to promote adhesion and sufficient time allowed for evaporation. Do not attempt, under any circumstances, to even off uneven surfaces with the liquid film!! There must be no possibility of damp penetrating from the undersurface. Before using the liquid film it must be stirred well. It is to be applied plentifully and evenly in 2 - 3 layers with a brush or a lambskin roller. Take care that each layer is dry before the next one is applied. After the complete sealing system has dried (approx. 24 hours), all commercially available, solventless tiling mortars as well as joint-sealing silicones can be used without risk.

Drying time:

Primer: The drying process is dependent upon the absorbency and the temperature of the undersurface as well as the temperature and humidity of the air. Drying takes approximately 2 hours at 20° C and 50 % relative atmospheric humidity.
Liquid film: In terms of the drying, the same applies here as for the primer! Wait approx. 24 hours before applying tiling mortar or any other coatings as well as carrying out joint sealing with silicone.

Consumption:

Primer: This is dependent upon the absorbency of the undersurface. The average consumption lies between 100 g/m² and 150 g/m²
Sealing tape: As required. An overlap of 5 cm must be taken into consideration.
Liquid film: Between 800 g/m² and 1,200 g/m² (with 2 - 3 coats)

Tool cleaning:

Clean tools immediately and thoroughly with water after use. Clean soiled areas well and immediately with water.

Storage:

If kept in a dry, frost-free place, the whole system is storable for 12 months in the individual original containers.

Sizes:

Primer: Plastic canister with 10 kg or 20 kg
Liquid film: Plastic bucket with 10 kg or 20 kg
Sealing tape: Width 12 cm (7 cm coating) or 10 cm (5 cm coating) and projecting fabric margin
Length 10 m (4 rolls per carton)
Length 50 m (1 roll per carton)

This VDF sealing system meets the requirements laid down in the ZDB specification sheet entitled “Notes concerning indoor and outdoor sealing work in conjunction with floor and wall coverings of tiles and slabs”.

Safety notices:

No part of the sealing system is subject to the compulsory identification laws or to the directions on hazardous materials.

Notice:

The above specifications were made in accordance with the present-day stage in development and the application research of our firm. Because the ways and means of application are beyond our control, the manufacturer cannot be made liable for the contents of this specification sheet.

TIS 04.99