

Thixotropic, fibre-reinforced, polymer modified bitumen surface sealing compound

- two component
- fast drying
- flexible and crack-bridging
- suitable as an adhesive for insulating elements
- easily applicable to damp substrates
- solvent free

 2007 Vandex Isoliermittel-GmbH Industriestr. 19-23 DE-21493 Schwarzenbek 14 247 EN 15814:2012	EN 15814:PMB-CB2-W2A-C2A Polymer modified bituminous thick coating (PMB) for waterproofing in below ground structures	
	Crack bridging ability Water resistance Flexibility at low temperatures Reaction to fire Watertightness Resistance to compression Durability	class CB2 class R2 no cracks class E class W2A class C2A passed

PRODUCT DESCRIPTION

VANDEX FLEXBIT 2K is a two component, fibre-reinforced, solvent-free thixotropic membrane, based on a polymer modified thick bitumen emulsion.

AREAS OF APPLICATION

The paste-like, VANDEX FLEXBIT 2K provides water-proofing against ground moisture and non-accumulating seepage water as well as against accumulating seepage water under floor slabs as well as on walls and other below-ground structural.

Furthermore, VANDEX FLEXBIT 2K is used for the internal sealing of wet room floors under tiles and screed above and below ground against rising damp.

VANDEX FLEXBIT 2K can also be used as an adhesive for protective and thermal insulating panels.

PROPERTIES

VANDEX FLEXBIT 2K has high resistance to aggressive ground water. It is not long-term resistant against aromatic and aliphatic compounds, oil, grease, etc.

Applied with the recommended thickness of approx. 4.5–5.5 kg/m², the sealing membrane is crack-bridging.

SURFACE PREPARATION

The substrate to be treated must be clean, sound and free from oil and grease. Remove any edges and protrusions. Large pores and cracks, cavities and honeycombs must be pre-filled with cementitious patching mortar, ideally with VANDEX UNI MORTAR 1 or VANDEX BB 75 (depending on layer thickness). Before application of VANDEX FLEXBIT 2K, the substrate must be dry or slightly damp.

MIXING

First stir briefly the bitumen emulsion in the original container using a suitable paddle and a slow-rotating mechanical mixer. Then add the powder component slowly and mix thoroughly to a lump-free, homogeneous consistency. The suggested mixing time is approx. 2–3 minutes.

APPLICATION

After mixing, VANDEX FLEXBIT 2K is ready to use and can be applied by notched trowel. The ambient and substrate temperature must be min. +5 °C. The higher ambient and material temperature the shorten pot life of the mixed material will be.

VANDEX FLEXBIT 2K is normally applied in two layers. Prior to the first layer, apply a scratch coat to fill open pores, followed by the first layer of VANDEX FLEXBIT 2K. This layer can be applied wet-to-wet into the scratch coat. Allow the material to become touch dry before applying the second layer.

The freshly applied material must be protected from extreme sunlight and rain by suitable means.

CONSUMPTION

Type of application	No. of layers	Consumption of wet material	Min. dry membrane thickness
Ground moisture	2 layers	approx. 4.5 kg/m ²	3 mm
Pressureless surface water and seepage	2 layers	approx. 4.5 kg/m ²	3 mm
Accumulating seepage water	2 layers with mesh reinforcement	approx. 5.5 kg/m ²	4 mm

PACKAGING

Combined plastic bucket containing 28 kg (21 kg emulsion + 7 kg powder component)

STORAGE

When stored in unopened, undamaged original packaging at min. +5 °C, shelf life is approx. 9 months. Store and transport protected from frost. Avoid exposure to direct sunlight and strong heat.

CLEANING

Fresh VANDEX FLEXBIT 2K can be removed with soap and water from equipment and hands. When dry, VANDEX FLEXBIT 2K can be removed with common solvents.

HEALTH AND SAFETY

VANDEX FLEXBIT 2K (emulsion) is not a dangerous substance. However, observe the usual safety measures when handling chemicals. Provide good ventilation if handling large quantities and in enclosed areas.

VANDEX FLEXBIT 2K (powder) contains cement.

Irritating to skin. Risk of serious damage to eyes. Keep out

of reach of children. Do not breathe dust. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

For further information please refer to Safety Data Sheet on www.vandex.com.

TECHNICAL DATA		
Colour emulsion		brown
powder		grey
mixture after drying		black
Density (mixture)	[g/cm ³]	1.13
Application temperature	[°C]	above 5 °C
Crack bridging capacity at +4 °C, 2 mm thickness of wet film	[mm]	2
Vapour diffusion coefficient	[μ]	5'000–30'000
Resistance to heat	[°C]	up to +70 → no movement
Resistance to cold	[°C]	0 → no cracks when bent
Water impermeability (DIN 52123)	[bar]	0.75
Rain resistance		resistant after approx. 5 hours
Decrease of layer thickness by drying process after 28 days	[%]	approx. 20
All data is averaged from several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these values.		

The information contained herein is based on our long-term experience and the best of our knowledge. We can, however, make no guarantee since for a successful outcome, all circumstances in an individual case must be taken into consideration. Indications of quantities required are only averages which in certain cases might be greater.



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