FLEXTAPE

High performance sealing tape for movements and construction joints

- *permanent flexible waterproofing seal*
- *approved for drinking water*
- *high elasticity depending on the thickness of the tape and width of the expansion zone*
- *thermal welding ensures secure, watertight joints*

PRODUCT DESCRIPTION

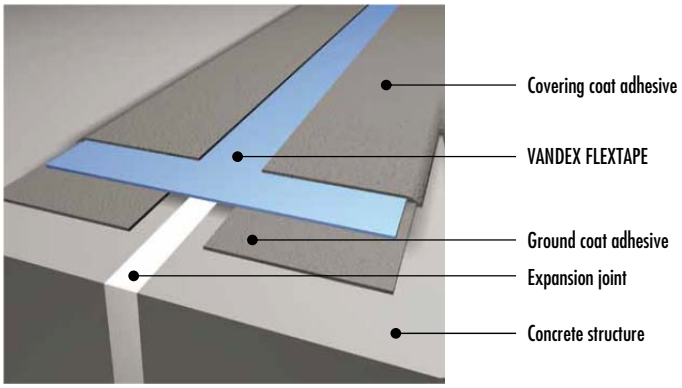
VANDEX FLEXTAPE is a thermoplastic elastomer (TPE). Extremely durable, it has excellent resistance to weathering and is UV and chemically stable.
The bond to the substrate is achieved using an adhesive.

AREAS OF APPLICATION

The FLEXTAPE system bridges and seals expansion and construction joints, as well as cracks in concrete structures.
The maximum permissible expansion under continuous load depends on the thickness of the tape and the width of the non bonded expansion zone.
The VANDEX FLEXTAPE system is resistant to hydrostatic pressure on the active side. On the passive side, in combination with a counterpressure structure.

APPLICATION

1. The substrate must be sound, clean and free of dust, oil and grease. Sandblasting, high pressure waterjetting or grinding are recommended for the initial preparation. Any unevenness or other surface irregularities must be levelled off prior to application. The acceptable moisture content of the substrate depends on the type of adhesive used.
2. Apply the adhesive as an initial coating to both sides of the joint or crack with a trowel or toothed comb. With expansion joints, an expansion zone of sufficient width is to be left free of adhesive.
3. Press the VANDEX FLEXTAPE firmly into the adhesive before it hardens. Any entrapped air must be worked out.
   Where greater than normal movement is anticipated, it is advisable to leave some slack in the tape in the expansion zone.
4. Float the final coating by trowel. In the case of expansion joints, an expansion zone must be kept free of adhesive. In case of any necessary overcoating, the adhesive must be sprinkled with quartz sand.
5. Protect the VANDEX FLEXTAPE against possible mechanical damage throughout application by appropriate means, such as sheet metal, rubber matting or polystyrene slabs.
   The VANDEX FLEXTAPE must be protected against heat loads exceeding of 70 °C.



VANDEX FLEXTAPE – Sealing of an expansion joint.

PACKAGING

Type	Thickness	Width	Length	Recommended use
200/2	2 mm	200 mm	20 m	movement joints
200/1	1 mm	200 mm	20 m	cracks, construction joints
150/1	1 mm	150 mm	20 m	cracks, construction joints

Other types on request.

STORAGE

In unopened and undamaged original packaging, the tape can be stored in a dry atmosphere for an unlimited period of time (optimal storage conditions: (20 °C / 50% r h).

TAPE JOINTS

Thermal welding and hot air ensure the elasticity of all VANDEX FLEXTAPE connections.
Welding temperatures:
tape thickness 1 mm: approx. 270 °C
tape thickness 2 mm: approx. 360 °C
Overlap at butt joints: straight joints ≥ 3 cm, corner joints ≥ 2 cm. Before welding, roughen the contact area with sand paper. Purpose made joints, such as internal and external corners, must be made in accordance with the enclosed details.

CHEMICAL RESISTANCE

Good resistance to: water based bituminous coatings, water, cement, lime water and sea water, municipal sewage, UV-radiation, hydrolysis, microorganisms.
Limited resistance to: concentrated alkalis/acids, organic solvents (hydrocarbons, esters, ketone)
pH limitations: Depending on the average temperature, the pH-range should be limited as follows: pH = 2 to 10 (< 30 °C); pH = 5 to 10 (< 40 °C); pH = 6 to 8 (< 60 °C).

HEALTH AND SAFETY

Please refer to Safety Data Sheets of VANDEX FLEXTAPE and adhesive on www.vandex.com.

TECHNICAL DATA			
Tape thickness	**[mm]**	**1,0**	**2,0**
Material		TPE	TPE
Surface		smooth	smooth
Colour	[RAL]	approx. 7045 (light grey)	approx. 7045 (light grey)
Tearing strength	[MPa]	>6	>6
Elongation at rupture	[%]	>400	>400
Cold-weather performance		up to –30 °C no cracks	ut to –30 °C no cracks
Maximum permissible expansion under continuous load * of the unbonded flex zone Pre-requisite: min. adhesive cover on both sides = 100 mm	[% *]	10	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.

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VX.DS.185.en.1705

FLEXTAPE

Tape joint by thermal welding

Overlap of butt joints:
Straight joints: min. 3 cm
Corner joints: min. 2 cm

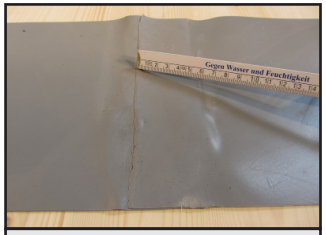
Welding temperature:
Tape thickness 1 mm: approx. 270 °C
Tape thickness 2 mm: approx. 360 °C

Straight joint

Roughen the contact area with sandpaper

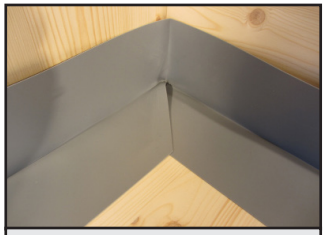
Heat tape surfaces using a hot air welding gun and press them together

For perfectly sealed tape joints, weld the borders and press them together with the roller



Completed straight joint

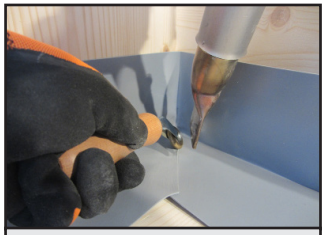
Internal corner



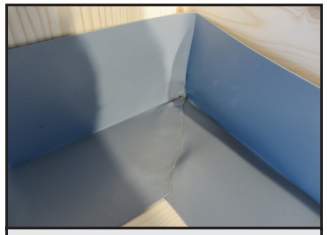
Cut to the centre of the tape and fit it into the internal corner; overlapping: > 2 cm, cut away the rest

Roughen the contact area with sandpaper

Heat tape surfaces using a hot air welding gun and press them together, starting from the corner working outwards

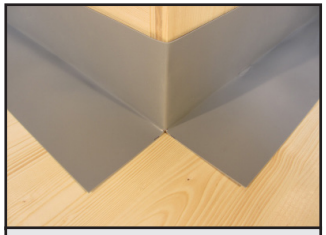


For perfectly sealed tape joints, weld the borders and press them together with the roller



Completed internal corner

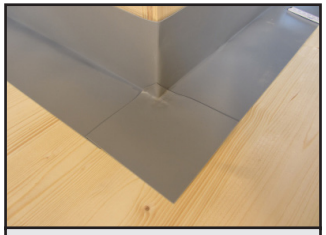
External corner



Cut to the centre of the tape and fit it around the external corner

Roughen the contact area with sandpaper

Cut a supplementary piece of tape; heat one corner using a hot air welding gun, stretch it slightly and ...



... fix it to the contact point in the corner also heated before; overlapping: > 2 cm

Heat tape surfaces and press them together, starting from the corner working outwards

For perfectly sealed tape joints, weld the borders and press them together with the roller

VXDS185 tape joint welding E1114

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