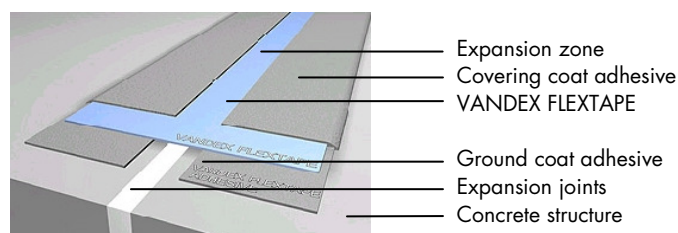


## High Performance Sealing Tape for Movement and Construction Joints

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

<b>Material</b>	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.
<b>Areas of Application</b>	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.
<b>Application</b>	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>5. Protect the VANDEX FLEXTAPE against possible mechanical damage throughout application by appropriate means, such as sheet metal, rubber matting or polystyrene slabs.</li> </ol> <p>The VANDEX FLEXTAPE must be protected against heat loads exceeding of 70 °C.</p>



VANDEX FLEXTAPE – Sealing of an expansion joint

<b>Packaging</b>	Type	Thickness	Width	Length	Recommended use
	200/2	2 mm	200 mm	20 m	movement joint
	200/1	1 mm	200 mm	20 m	cracks, construction joints
	150/1	1 mm	150 mm	20 m	cracks, construction joints

**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 240 °C  
tape thickness 2 mm 340 °C  
The minimum overlap at joints of the tape is 3 cm.  
Purpose made joints, such as internal and external corners, must be made in accordance with the enclosed details.

<b>Technical Data</b>	Characteristic	Unit	Values	
	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	up to -30 °C no cracks
	Maximum permissible expansion under continuous load	% of unbonded flex zone	10%	25%
	Pre-requisite: minimum adhesive cover on both sides	Width in mm	≥ 40 mm	≥ 50 mm

**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** Refer to Material Safety Data Sheets of VANDEX FLEXTAPE and adhesive.

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.



## CONCRETE PROTECTION AND WATERPROOFING

**HEADOFFICE AND INTERNATIONAL SALES:**  
**VANDEX INTERNATIONAL LTD**  
P.O. Box, CH-4501 Solothurn/Switzerland  
Phone: +41 32 626 36 36, Fax +41 32 626 36 37  
E-mail: info@vandex.com www.vandex.com

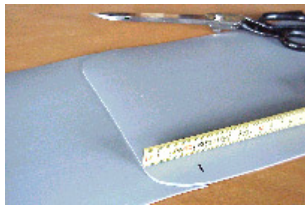
**PRODUCTION AND SALES GERMANY/AUSTRIA:**  
**VANDEX ISOLIERMITTEL-GESELLSCHAFT m.b.H.**  
Postfach 1406, D-21487 Schwarzenbek/Germany  
Phone: +49 4151 89 15-0, Fax +49 4151 89 15 50  
E-mail: info@vandex.de www.vandex.de



# FLEXTAPE

## Tape Joint by Thermal Welding

### Straight Joint:



- ❶ Cut tape.  
Overlap 3 cm, round off corners.

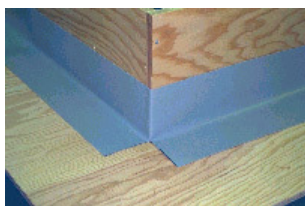


- ❷ With 1 mm tape thickness, the welding temperature is about 240 °C, with 2 mm tape thickness 340 °C.  
Position the tape and tack weld.

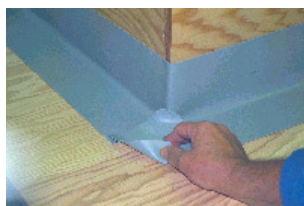


- ❸ Seal the overlap by moving the nozzle slowly down and immediately pressing the tape together with the roller.

### External corner:



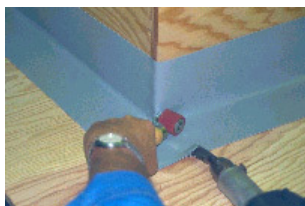
- ❶ Make a cut to the centre of the tape, so that it can be turned around the corner, as shown.



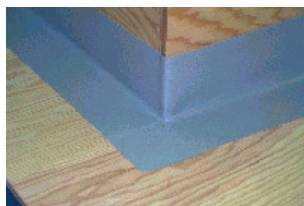
- ❷ Cut a supplementary length of FLEXTAPE to size. Preheat the tape, and mould it to fit the corner to be covered.



- ❸ Tack weld it into the place, and then weld the overlap in the corner.



- ❹ Weld the horizontal overlaps, starting from the corner and working outwards.



- ❺ Completed external corner.

### Internal corner:



- ❶ The tape is fitted into the corner to be sealed. The 2 mm-thick tape can be preheated to make it more pliable.



- ❷ The resultant fold is then cut off with a pair of scissors to form an overlap of about 3 cm.



- ❸ To ensure a tight fit, the corner pocket must be welded first and with extreme care.



- ❹ The overlapping area is welded outwards from the corner.



- ❺ Completed internal corner.