#### **Product Data Sheet**

Edition 11/05/2016 Identification no: 02 07 03 08 001 0 00000 /5/4/1 Sika® Dilatec® Tapes

## Sika<sup>®</sup> Dilatec<sup>®</sup> Tapes

# Pre-formed joint and edge waterproofing and sealing tapes Part of the Sika® Dilatec® System

## Product Description

Sika® Dilatec® tapes are flexible, ready to use, waterproofing and sealing tapes, made of bitumen resistant PVC with fabric strips at the side, for use in construction and movement joints and for the connections and ends of sheet waterproofing membranes. They are part of the Sika® Dilatec® System.

#### Uses

#### ■ Type BE-300

End tape for bituminous waterproofing on concrete and metals. Sealed on one side with hot bitumen between polymer bitumen waterproofing membranes (B-edge) and bonded on the other side with Sikadur®-Combiflex® CF Adhesive or Sikadur®-31 CF N (E-edge).

#### ■ Type ER-350

End tape for PVC waterproofing membranes on concrete and metals. Bonded on one side with Sikadur®-Combiflex® CF Adhesive or Sikadur®-31 CF N (E-edge) and welded on the other side to the PVC waterproofing membrane (R-edge).

#### Type BR-500

End tape for bituminous waterproofing and jointing tape between PVC waterproofing membranes and bituminous waterproofing. Sealed on one side with hot bitumen between two layers of polymer modified bitumen membrane (B-edge) and welded on the other side to the PVC waterproofing membrane (R-edge).

#### Type E-220

Sealing tape for construction and movement joints in concrete and metals. Bonded on both sides with Sikadur®-Combiflex® CF Adhesive or Sikadur®-31 CF N (E-edges).

#### **■** Type B-500

Sealing tape for movement joints on bituminous waterproofing. Sealed on both sides with hot bitumen between two layers of polymer modified bitumen membrane (B-edges).

## Characteristics / Advantages

- Durable water and weather resistance
- High movement absorption
- Root resistant
- Resistant to many chemicals
- UV resistant
- Suitable for use and service over a wide temperature range
- Can be hot air welded



Tecnotest AG Rüschlikon Zurich, Test Report No. A2838-01 dated 18.08.05: Watertightness according to EN 1928 Method B and thickness measurement to SN EN 1849-2.						
Sika Dilatec E-220, Determination of reaction to fire, Tecnotest, 07.01.2013						
Sika Dilatec BE-300, Determination of reaction to fire, Tecnotest, 07.01.2013						
Sika Dilatec ER-350, Determination of reaction to fire, Tecnotest, 07.01.2013						
Sika Dilatec B-500, Determination of reaction to fire, Tecnotest, 07.01.2013						
Sika Dilatec B	R-500, Deterr	nination of rea	ction to fire, Te	ecnotest, 04.03	3.2013	
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Type BE-300, E-220 and B-500: Ready to use, waterproof sealing tapes in rolls, with a central expansion zone absorb the joint movement and fabric edging strips at the sides, for fixing to the substrate or sealing between 2 layers of polymer modified bitumen membrane. The top and bottom are light grey.						
Ready to use, fabric strip on to PVC waterp	waterproof se one side, for for for side, member the side of the s	ixing to the su	bstrate and ro	of sealing, hot	air weldable	
Туре	BE-300	E-220	B-500	ER-350	BR-500	
Thickness	1.6 mm	1.6 mm	1.6 mm	1.6 mm	1.6 mm	
Width	300 mm	220 mm	500 mm	350 mm	500 mm	
Roll length	30 m	30 m	30 m	20 m	30 m	
Note: The additional use of Sika® Dilatec® welding tape is required for the tape ends jointing area (supplied in 2 m rolls, 50 cm wide).						
36 months from date of production if stored in undamaged and unopened, original sealed packaging in dry conditions at a storage temperature of between +5°C and +40°C.						
Soft PVC, bitumen compatible (PVC-P-BV)						
~ 17.000 (According to SIA V280						
4.2				(According	to SIA V280	
Long-term: Lower limit: Upper limit:	-25°C +80°C					
Lower limit:						
Lower limit:				(According	to EN 1928/E	
Lower limit: Upper limit:	+80°C	-500:	(	(According (According to I		
	Watertightness SN EN 1849-2 Sika Dilatec E Sika Dil	Watertightness according to SN EN 1849-2.  Sika Dilatec E-220, Determining Sika Dilatec BE-300, Determining Sika Dilatec BR-350, Determining Sika Dilatec BR-500, Determining Determining Sika Dilatec BR-500, Determining Determining Determining Sika Dilatec BR-500, Determining Determ	Watertightness according to EN 1928 Met SN EN 1849-2.  Sika Dilatec E-220, Determination of react Sika Dilatec BE-300, Determination of react Sika Dilatec ER-350, Determination of react Sika Dilatec B-500, Determination of react Sika Dilatec BR-500, Determination of react Sika Dilatec BR-500 and BR-500:  Ready to use, waterproof sealing tapes in fabric strip on one side, for fixing to the sut to PVC waterproofing membranes on the grey, the bottom is black.  Type BE-300 E-220  Thickness 1.6 mm 1.6 mm  Width 300 mm 220 mm  Roll length 30 m 30 m  Note: The additional use of Sika® Dilatec® ends jointing area (supplied in 2 m rolls, 5)  36 months from date of production if store sealed packaging in dry conditions at a ster+40°C.  Soft PVC, bitumen compatible (PVC-P-BV ~ 17.000)	Watertightness according to EN 1928 Method B and thic SN EN 1849-2.  Sika Dilatec E-220, Determination of reaction to fire, Tec Sika Dilatec BE-300, Determination of reaction to fire, Tec Sika Dilatec ER-350, Determination of reaction to fire, Tec Sika Dilatec B-500, Determination of reaction to fire, Tec Sika Dilatec BR-500, Determination of reaction to fire, Tec Sika Dilatec BR-500, Determination of reaction to fire, Tec Sika Dilatec BR-500, Determination of reaction to fire, Tec Sika Dilatec BR-500, Determination of reaction to fire, Tec Sika Dilatec BR-500, Determination of reaction to fire, Tec Sika Dilatec BR-500, Determination of reaction to fire, Tec Sika Dilatec BR-500, Determination of reaction to fire, Tec Sika Dilatec BR-500 and BR-500:  Ready to use, waterproof sealing tapes in rolls, with glass fabric strip on one side, for fixing to the substrate and root to PVC waterproofing membranes on the other side with grey, the bottom is black.  Type BE-300 E-220 B-500  Thickness 1.6 mm 1.6 mm 1.6 mm Width 300 mm 220 mm 500 mm Roll length 30 m 30 m 30 m Note: The additional use of Sika® Dilatec® welding tape ends jointing area (supplied in 2 m rolls, 50 cm wide).  36 months from date of production if stored in undamage sealed packaging in dry conditions at a storage tempera +40°C.  Soft PVC, bitumen compatible (PVC-P-BV)	Watertightness according to EN 1928 Method B and thickness measur SN EN 1849-2.  Sika Dilatec E-220, Determination of reaction to fire, Tecnotest, 07.01.: Sika Dilatec BE-300, Determination of reaction to fire, Tecnotest, 07.01.: Sika Dilatec ER-350, Determination of reaction to fire, Tecnotest, 07.01.: Sika Dilatec B-500, Determination of reaction to fire, Tecnotest, 07.01.: Sika Dilatec BR-500, Determination of reaction to fire, Tecnotest, 04.03.  Type BE-300, E-220 and B-500: Ready to use, waterproof sealing tapes in rolls, with a central expansion absorb the joint movement and fabric edging strips at the sides, for fixing substrate or sealing between 2 layers of polymer modified bitumen meter the top and bottom are light grey.  Type ER-350 and BR-500: Ready to use, waterproof sealing tapes in rolls, with glass fibre reinford fabric strip on one side, for fixing to the substrate and roof sealing, hot to PVC waterproofing membranes on the other side without fabric. The grey, the bottom is black.  Type BE-300 E-220 B-500 ER-350  Thickness 1.6 mm 1.6 mm 1.6 mm 1.6 mm Width 300 mm 220 mm 500 mm 350 mm Roll length 30 m 30 m 30 m 20 m  Note: The additional use of Sika® Dilatec® welding tape is required for ends jointing area (supplied in 2 m rolls, 50 cm wide).  Soft PVC, bitumen compatible (PVC-P-BV)  ~ 17.000 (According	

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	<b>Type BE-300, E-220</b> a > 250 %	and B-500:	(According to EN ISO 527-1)		
	<b>Type ER-350 and BR</b> > 200%	-500:			
Root Resistance	Compliant		(According to SIA V280)		
Seam Strength	Weld seam strength: Failure always adjace	nt to seam	(According to DIN 16 726)		
Impact Resistance	Mechanical Impact Resistance: Watertight at a drop height > 650 mm (falling weight 500g) (According to SIA V28				
Resistance					
Chemical Resistance	Long term exposure to: Water, sea water, alkaline water, de-icing salt solutions, bitumen renders, water disperse bitumen based coatings.  Temporarily resistant to: Dilute inorganic alkalis and mineral acids, mineral oils.				
Heat Resistance	Heat ageing:	Compliant	(According to SIA V280)		
	Bending test:	No cracks at < -25°C	(According to SIA V280)		
	Artificial weathering:	5000 hours - compliant	(According to SIA V280)		
Ozone Resistance	Compliant		(According to SIA V280)		
Behaviour in Hot Water	Compliant		(According to SIA V280		
System Information					
Application Details					
Consumption		e requires approx. 400 g of Sika per metre per side. High substra			
Application Instructions					
Instructions Application Method /	Tape type:				
Instructions	Selection of the correct	ct type of tape and therefore its cific project details and conditioes if required.			
Instructions Application Method /	Selection of the correct dependent on the spe Sika Technical Service	cific project details and conditio	ns. Advice is available from		
Instructions Application Method /	Selection of the correct dependent on the spe Sika Technical Service	cific project details and condition es if required.  expansion movement under co	ns. Advice is available from		
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Instructions Application Method /	Selection of the correct dependent on the spe Sika Technical Service Maximum permissible Sika® Dilatec® BE-300 Sika® Dilatec® B-500 Sika® Dilatec® B-500	cific project details and conditiones if required.  expansion movement under conditioner c	ons. Advice is available from onstant load:		
Instructions Application Method /	Selection of the correct dependent on the spe Sika Technical Service Maximum permissible Sika® Dilatec® BE-300 Sika® Dilatec® E-220 Sika® Dilatec® B-500 For larger movement a	cific project details and conditions if required.  expansion movement under conditions are the conditions ar	ons. Advice is available from onstant load:		
Instructions Application Method /	Selection of the correct dependent on the spe Sika Technical Service Maximum permissible Sika® Dilatec® BE-300 Sika® Dilatec® B-500 For larger movement a Application:	cific project details and conditions if required.  expansion movement under conditions of the conditio	ons. Advice is available from onstant load: the joint.		
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Sika® Dilatec® Tapes

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# Value Base All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields. For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

#### Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.









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