

WATERPROOFING Sika® Dilatec® System

MULTIFUNCTIONAL SEALING SYSTEM



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The Sika® Dilatec® System is a multifunctional, flexible tape sealing solution for the terminations and connections of waterproofing membranes, as well as for sealing joints. This unique system consists of weldable Sika® Dilatec® tapes produced in PVC, with fabric strips on one or both edges for optimal adhesion when bonded with Sikadur® epoxy adhesives or hot melt bitumen. The different types of Sika® Dilatec® tapes are used for many different sealing applications in basements, tunnels (especially cut and cover tunnels), and with bridge deck waterproofing systems. It is used to ensure watertight connections, terminations and joints between different waterproofing technologies and systems such as Sikaplan® WP (PVC) and SikaBit® (Bituminous) waterproofing membranes on concrete structures.

MAIN ADVANTAGES

- Multifunctional solution for joint sealing
- Good adhesion properties
- No activation on site required
- Highly flexible and joint bridging capability
- Good chemical resistance
- Root penetration resistant
- Hot air weldable
- Adaptable to many different jointing situations

MULTIFUNCTIONAL SOLUTION

The various type of tapes terminate, connect and seal in multiple water-proofing solutions.

TAPE TYPES:

- E-edge adhered with Sikadur® adhesive
- B-edge adhered with hot-melt bitumen
- R-edge welded to Sikaplan® WP (PVC) membrane

MULTIFUNCTIONALITY:

a) Terminations

- For loose laid Sikaplan® WP (PVC) membrane system
- To create compartmentalized systems (post-applied)

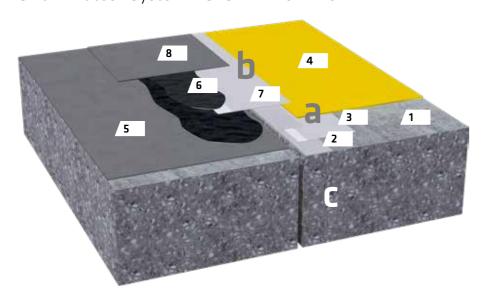
b) Connections between different technologies and systems, such as

- Sikaplan® WP (PVC) membranes
- SikaBit® bituminous membranes

c) Joint Sealing

- Construction Joints in waterproofed concrete structures
- Connection Joints

Sika® Dilatec® System - SYSTEM BUILD-UP



MULTIFUNCTIONAL SYSTEM:

a) Terminations

- **1** Concrete
- **2** Sikadur® adhesive
- 3 Sika®Dilatec® ER-350
- 4 Sikaplan® WP membrane

b) Connections

- **5** SikaBit® bituminous membrane
- 6 Hot-melt bitumen
- **7** Sika® Dilatec BR-500
- 8 SikaBit® bituminous membrane

c) Sealing of construction joints

TYPICAL APPLICATIONS

BRIDGE DECKS



- Provide multifuctional solutions to seal, connect and terminate waterproofing
- Used with PVC and bituminous membranes plus hot-melt bitumen
- Enhanced adhesion to various different substrates e.g. mineral, metals, etc.

BASEMENTS

membranes



- Provides a complete sealing system
 Weldable with Sikaplan® WP (PVC)
- Specifically used to create the Sikaplan® WP (PVC) compartment system in post-applied areas

CUT AND COVER TUNNELS

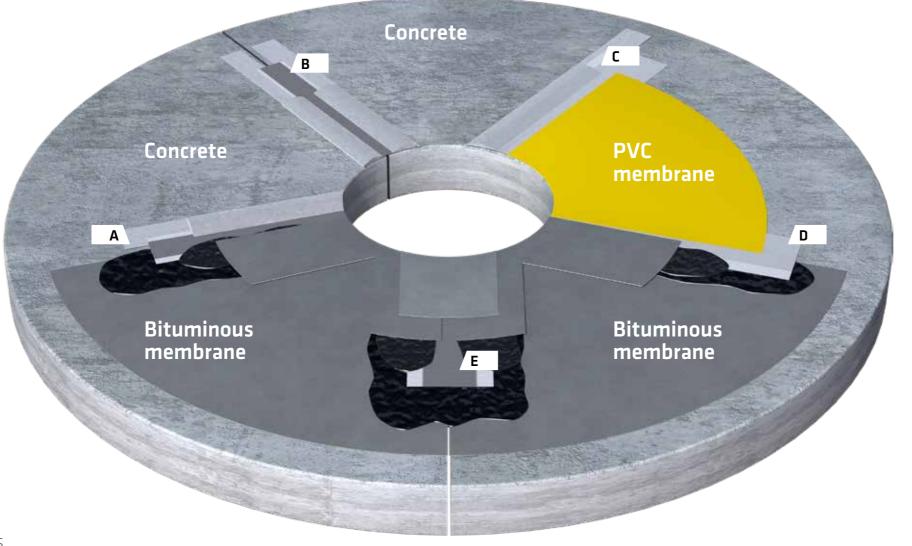


- Provides a unique sealing system to connect different technologies
- Used to connect Sikaplan® WP (PVC) membrane system with SikaBit® bituminous membranes
- High durability and resistance



Sika® Dilatec® SYSTEMS

PRODUCT RANGE



MULTIFUNCTIONAL JOINT SEALING SYSTEM FOR:

- E-edge Adhered with Sikadur® Adhesive
- **B-edge** Adhered with hot-melt bitumen between two bituminous waterproofing membranes (SikaBit®)
- R-edge Welded by hot-air to Sikaplan® WP (PVC) membranes

Sikadur® EPOXY ADHESIVES

Sikadur Combiflex® CF Adhesive

- Provides a smooth surface finish
- Normal and rapid types



Sikadur®-31 CF

- For use where a higher layer thickness is required (e.g. substrate profile)
- Normal, slow and rapid types



Sika® Dilatec® TAPES

Sika® Dilatec® BE-300 Termination and connection tape for bituminous waterproofing membranes installed onto concrete and metal surfaces.



Sika® Dilatec® E-220

Joint sealing tape onto concrete and metal surfaces, also used to create the Sikaplan® WP membrane compartments system.



Sika® Dilatec® ER-350

Termination and connection tape for Sikaplan® WP membranes onto concrete and metal surfaces.



Sika® Dilatec® BR-500

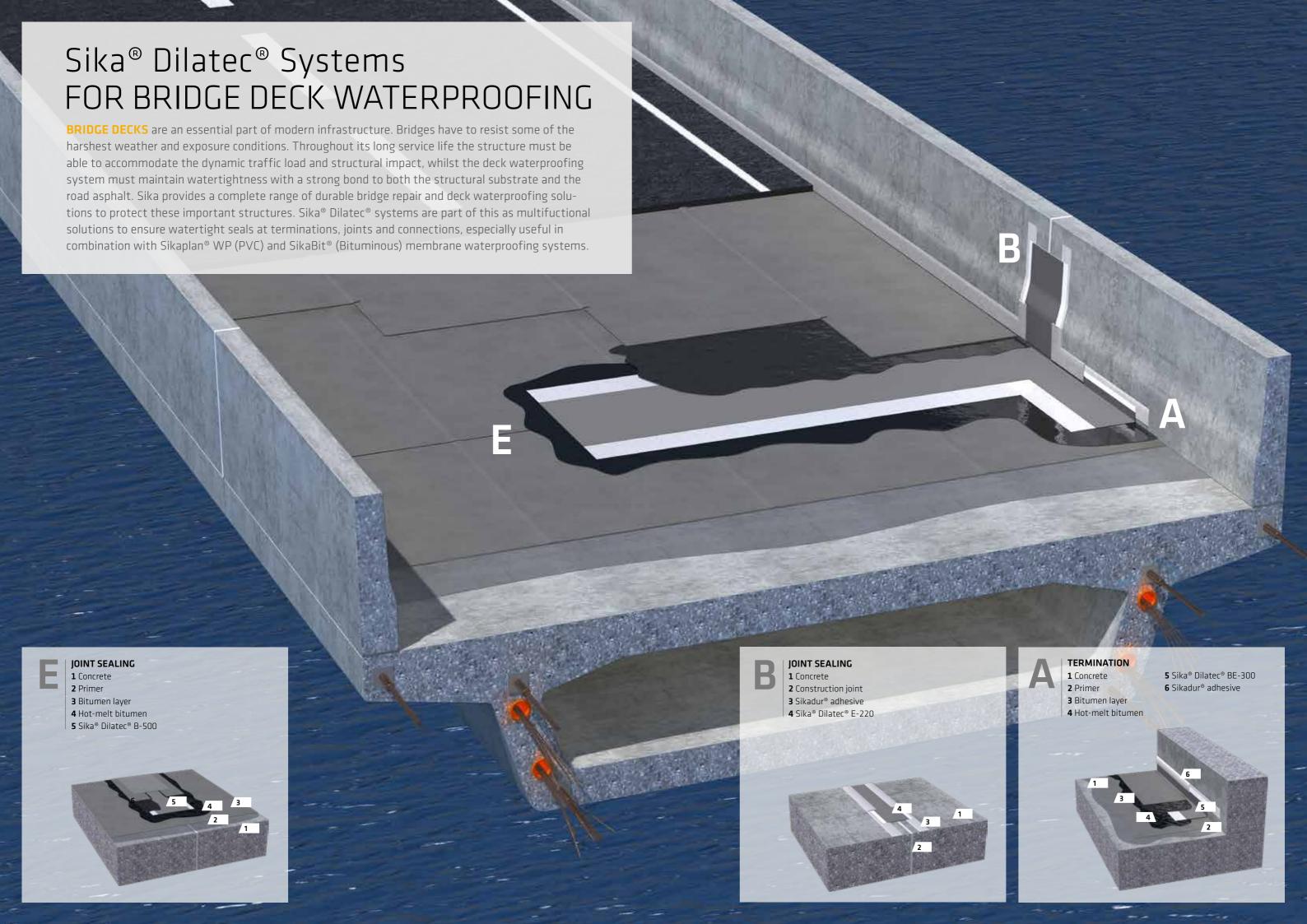
Termination and connection tape between bituminous waterproofing membrane and Sikaplan® WP membrane.

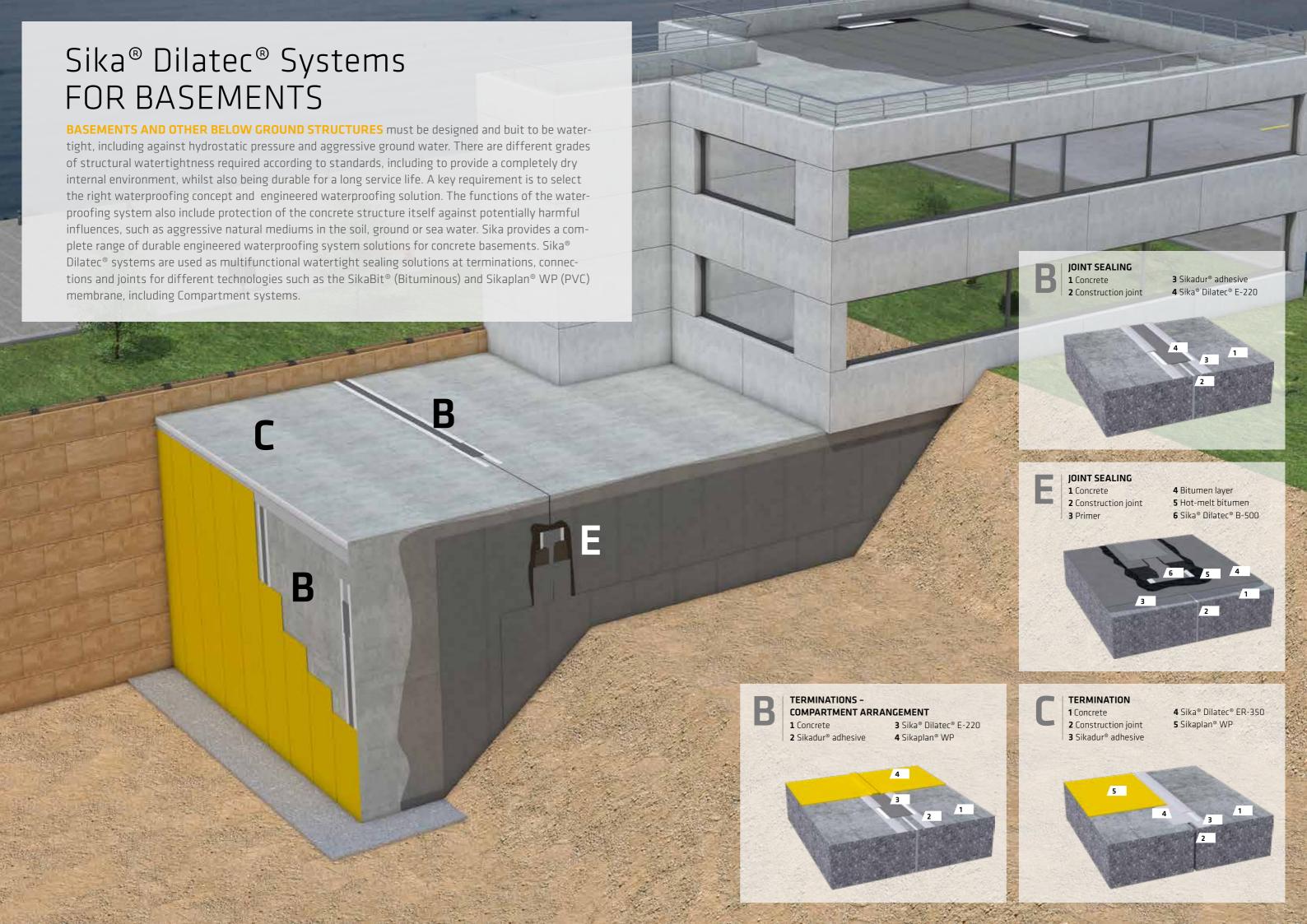


Sika® Dilatec® B-500

Joint sealing tape for bituminous waterproofing membranes.



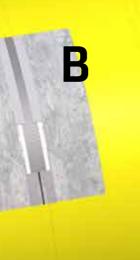


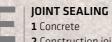


Sika® Dilatec® Systems FOR CUT AND COVER TUNNELS

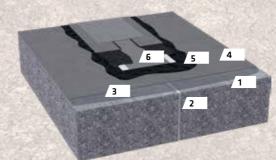
WATERPROOFING SYSTEMS FOR TUNNEL STRUCTURES are faced with very stringent requirements. This is not only regarding their performance and durability in these aggressive exposure conditions, but they also have to be installed during demanding construction processes and sequences, requiring ease of application and cost efficiency on site.

Sika provides a complete range of highly specialised waterproofing solutions for tunnel projects. Sika® Dilatec® systems are ideal for multiple sealing requirements to connect, join and terminate different waterproofing system technologies, such as SikaBit® (Bituminous) and Sikaplan® WP (PVC) membranes and the Sikaplan® WP highest performance Compartment systems.





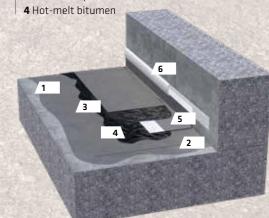
- 2 Construction joint
- **3** Primer
- 4 Bitumen layer
- 5 Hot-melt bitumen
- 6 Sika® Dilatec® B-500



TERMINATIONS 1 Concrete

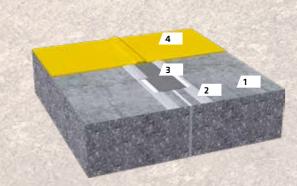
- 2 Primer
- 3 Bitumen layer
- 6 Sikadur® adhesive

5 Sika® Dilatec® BE-300



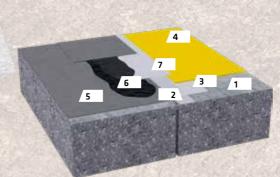
COMPARTMENT ARRANGEMENT

- 1 Concrete
- 2 Sikadur® adhesive
- 3 Sika® Dilatec® E-220
- 4 Sikaplan® WP



TRANSITION

- 1 Concrete 2 Sikadur® adhesive
- 3 Sika® Dilatec® ER-350
- 4 Sikaplan® WP
- 5 Bitumen layer



6 Hot-melt bitumen

7 Sika® Dilatec® BR-500

GLOBAL BUT LOCAL PARTNERSHIP



FOR MORE WATERPROOFING INFORMATION:



WE ARE SIKA

Sika is a specialty chemicals company with a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing and protecting in the building sector and the motor vehicle industry. Sika's product lines feature concrete admixtures, mortars, sealants and adhesives, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.









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