

SYSTEM DATA SHEET

Sika® Dilatec® System

PVC multifunctional joint sealing system

PRODUCT DESCRIPTION

The Sika® Dilatec® System is a combination of various types of waterproofing tapes based on polyvinyl chloride (PVC) and substrate bonding materials consisting of epoxy adhesives and / or hot melt bitumen depending on the application. The system provides a flexible waterproofing connection between PVC and bitumen membranes and different substrates. The appropriate tape is selected based on the application, membrane type and substrate combinations.

USES

Sealing of different structures and applications including:

- Basements
- Bridges
- Cut and cover tunnels

Sealing of:

- Construction joints
- Connection joints
- Connection between different membrane types
- Terminations
- Creating compartmentalised Sikaplan System

CHARACTERISTICS / ADVANTAGES

- Multifunctional solution for joint sealing
- Good adhesion properties
- Bonding options to a range of membranes and substrates
- No activation on site required
- High flexibility joint bridging ability
- Good chemical resistance
- Root penetration resistant
- Resistant to weathering
- Hot air weldable
- Adaptable to many different jointing situations

APPROVALS / STANDARDS

- Elongation, Tensile Strength, Foldability, Puncture and Tear Resistance tests, Sika® Dilatec® BR-500, tecnotest ag, Test report No. A4447-01
- Fire Testing EN ISO 11925, Sika® Dilatec® B-500, tecnotest ag, Test report No. A4020-06
- Fire Testing EN ISO 11925, Sika® Dilatec® BE-300, tecnotest ag, Test report No. A4020-09
- Fire Testing EN ISO 11925, Sika® Dilatec® BR-500, tecnotest ag, Test report No. A4020-08
- Fire Testing EN ISO 11925, Sika® Dilatec® E-220, tecnotest ag, Test report No. A4020-07
- Material Properties Sika® Dilatec® ER-350, tecnotest ag, Test report No. A4020-05

SYSTEM INFORMATION

System Structure

Sika® Dilatec® System consists of a polyvinyl chloride (PVC) waterproofing tape and a Sikadur® epoxy adhesive or hot bitumen for bonding to substrates.

Tape type

Description

Type BE-300

Connects and terminates bituminous waterproofing membranes on concrete or metal substrates. The B-edge on one side is bonded to the bituminous waterproofing membranes with hot-melt bitumen. The E-edge on the other side of the tape is bonded to concrete or metal with Sikadur® epoxy adhesives.

Type ER-350

Connects and terminates Sikaplan® WP (PVC) sheet membranes onto concrete or metal substrates. The E-edge on one side of the tape is bonded to concrete or metal with Sikadur® epoxy adhesives. The R-edge on the other side is hot air welded to the Sikaplan® WP membranes.

Type BR-500

Connects and terminates bituminous waterproofing membranes and Sikaplan® WP (PVC) sheet membranes. The B-edge on one side is bonded to the bituminous membranes with hot melt bitumen. The R-edge on the other side is hot air welded to the Sikaplan® WP membranes.

Type E-220

Seals connection and construction joints and can be used to create compartments of the Sikaplan® WP membrane system. Bonded on both sides with Sikadur® epoxy adhesives (E-edges).

Type B-500

Seals connection and construction joints. Bonded on both sides with hot melt bitumen between two layers of bituminous waterproofing membranes (B-edges).

Epoxy adhesives:

- Sika Greenstreak Epoxy 7300
- Sikadur®-31 HI MOD

Hot melt bitumen:

- Sika® Cimento Asfaltico

TECHNICAL INFORMATION

Chemical Resistance	Resistant to many chemicals. Refer to the individual Product Data Sheets.
Service Temperature	-10 °C min. / +40 °C max.

PRODUCT INFORMATION

Packaging	Refer to the individual Product Data Sheets
Shelf Life	Refer to the individual Product Data Sheets
Storage Conditions	Refer to the individual Product Data Sheets

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

AVAILABILITY/WARRANTY

- Sika® Application Manual: Sika® Dilatec® System
- Relevant Product Data Sheets

LIMITATIONS

Installation work must only be carried out by Sika® trained and approved contractors, experienced in this type of application.

- Solvents such as Sika Colma Cleaner do not improve the tape welding or adhesion properties.
- Sika® Dilatec® Tape must be protected from mechanical damage.
- Sika® Dilatec® Tape can be connected to the Sikaplan WP membranes by hot air welding.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

APPLICATION METHOD / TOOLS

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Selection of tape type

Selection of the correct type of tape and therefore its

application method is dependent on the specific project details and conditions. Contact Sika Technical Services for additional information.

General Installation Procedure

- Concrete or other substrates are prepared either side of the joint by mechanical equipment, i.e. blast cleaning, grinding etc., followed by vacuum extraction to remove residual dust etc.
- Sika® Dilatec® tape connections and overlaps must be welded.
- The E-edge (epoxy) is bonded to the substrate with Sikadur® epoxy adhesive.
- The R-edge (PVC) is hot air welded to PVC waterproofing membranes and PVC profiles.
- The B-edge (bitumen) is bonded with hot-melt bitumen (Sika® Cimento Asfaltico) in a sandwich between 2 layers of sheet membrane.

For detailed application information refer to the Application Manual: Sika® Dilatec® System.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com



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