

Appendix B

PERMEABILITY LABORATORY TEST REPORT

Laboratory Report Number: LR2512
Customer Reference Number: Sikadur-32+
Issue Date: 22 March 2023

Prepared For: Sika Limited
Watchmead, Welwyn Garden City, Herts, AL7 1BQ.
UK.

Contact: Chris Mossman-Monk

PRIVATE AND CONFIDENTIAL

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Sample Identification

A sample of Sikadur -32+ was received in 2-pack liquid form.

Equipment used

Versaperm Permeability Meter MK IV, configured to run ISO15105-1 differential pressure method.

Test Conditions

Test Gas: Methane CP Grade. CO2 CP grade

Temperature: 23°C

Atmospheric Pressure: Tested over 4 days ending 22/03/23 where pressure ranged 1004-1018 mbar.

Sample Preparation

The 2-pack was mixed in the 2:1 ratio described in the data sheet and drawn down on release paper and plain paper. The release paper was found to be effective and this is the sample set that was tested. After overnight curing, samples were stored for 7 days in a desiccator at 23°C to reduce out-gassing.

Test Methods

Methane and Carbon Dioxide Transmission Rate.

This test was carried out using the method ISO 15105-1 *Plastics - Film and sheeting - Determination of gas-transmission rate - Part 1: Differential-pressure methods*. After conditioning, each sample was placed in the standard film measuring chamber and controlled temperature environment, evacuating the gas from both sides of the sample, then supplying the test gas upstream of the sample at 1.0 bar differential pressure. The pressure downstream was monitored as the rate of change is proportional to the permeation rate. An additional set of tests was performed under vacuum without any differential pressure to compensate for any leaks on the surfaces in the rig, or out-gassing that had not been completed. Results are expressed as ml.mm/m².day

Test Results

Trade Name/ Identification	Test Gas	Nominal Thickness /mm	Gas Transmission Rate (GTR) / ml.mm/m ² .day			
			1	2	3	Average
Sikadur 32+	Methane	2.85	11.3	10.7	11.0	11.0
Sikadur 32+	Carbon Dioxide	2.85	7.1	7.1	7.3	7.1

Conclusions

The results are presented for the interpretation by the customer.



Christopher Roberts
Technical Director

PRODUCT DATA SHEET

Sika® Drain-850 Geo

Dimpled drainage and protection sheet with integral filtration layer

PRODUCT DESCRIPTION

Sika® Drain-850 Geo is a high density polyethylene (HDPE), heavy duty drainage and protection sheet with 10 mm high dimples on the bottom layer and a bonded geotextile (PP) filtration layer on the top layer.

USES

As a protection and drainage sheet for:

- Preformed sheet and liquid applied membrane waterproofing systems
- Sika® White Box concept for waterproofing retaining walls and heavy duty use roofs/podiums

CHARACTERISTICS / ADVANTAGES

- High drainage capacity
- High mechanical/impact resistance
- Integral filtration layer
- Resistant to natural aggressive substances in ground water and soil
- Suitable for contact with soft water (aggressive to concrete)
- Can be installed on damp and wet substrates
- Forms a drainage channel in the space between the structural elements and the backfilling/soil/substrate to allow water to be drained away

APPROVALS / STANDARDS

Conforms to the requirements of EN 13252:2016 – Geotextiles and geotextile-related products intended - For use as filtration and separation (F+S+D) in drainage systems
DoP 79308994, certified by Factory Production Control Body 1213 and provided with the CE mark

PRODUCT INFORMATION

Packaging	Roll size	
	Length	~12,50 m
	Width	~2,44 m
	Refer to current price list for packaging variations	
Appearance / Colour	Top layer	Bonded filtration geotextile / White
	Bottom layer	HDPE sheet with 10 mm deep dimples / Brown or black



Shelf Life	5 years from date of production
Storage Conditions	Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between +5 °C and +35 °C. Always refer to packaging.

Thickness	10,0 (±1,0) mm (at 2 kPa pressure)	(EN ISO 9863-1)
Weight	120 (±12) g/m ² (geotextile)	(ISO 9864)

TECHNICAL INFORMATION

Resistance to Static Puncture	1,6 (-0,32) kN (geotextile)		(EN ISO 12236)	
Tensile Strength	Machine direction	12 (-2) kN/m	(EN ISO 10319)	
	Cross machine direction	10 (-2) kN/m		
Elongation	Machine direction	50 (±20) %	(EN ISO 10319)	
	Cross machine direction	50 (±20) %		
Ambient Maximum Temperature of Li- quids	+32 °C (water)			
Drain flow capacity	Horizontal applic- ation*	(S/R, i= 0,04)	0,60 (-20 %) l/(m·s)	(EN ISO 12958)
	Vertical applica- tion*	(S/R, i= 1)	3,5 (-20 %) l/(m·s)	
	*Values at at 20 kPa pressure			
Resistance to dynamic perforation	32 (+6) mm (geotextile, cone drop test)		(EN ISO 13433)	
Compression resistance	400 (± 20 %) kPa			
Water flow capacity	110 (-33) l/(m²·s)		(EN ISO 11058)	
Protection efficiency	Compressive creep after 1000 h at 50 kPa (equival- ent to 2 m of concrete)	~5 %	(ISO 25619-1)	

APPLICATION INFORMATION

Ambient Air Temperature	-10 °C min. / +55 °C max.
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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.

LIMITATIONS

- Do not expose to permanent weathering and UV-light.
- When used in combination with PVC membranes, a separation (geotextile) must be used between the materials.
- Maximum installation depth: 10 m.

ECOLOGY, HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

All substrates must be clean and free of all contaminants such as dirt, oil, grease, dust and loose friable particles to allow full capacity water flow.

APPLICATION

Installation procedure

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

Installation method – General

The waterproofing membrane is installed by loose laying and mechanically fastening

LOCAL RESTRICTIONS

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.

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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Product Data Sheet

Sika® Drain-850 Geo
October 2024, Version 08.01
020720702000000018

SikaDrain-850Geo-en-GB-(10-2024)-8-1.pdf

PRODUCT DATA SHEET

Sikadur®-32+

2-part Structural Epoxy Adhesive for Bonding, Fixing and Anchoring with Sustainable Benefits

PRODUCT DESCRIPTION

Sikadur®-32+ is a moisture tolerant, structural, 2-part adhesive, based on a combination of epoxy resins and special fillers, designed for use at temperatures between +10 °C and +30 °C.

USES

Structural adhesive for bonding:

- Concrete elements (including bonding fresh to hardened concrete).
- Hard natural stone.
- Ceramics, fibre cement.
- Mortar, bricks, masonry, render.
- Steel, iron, aluminium.
- Wood.
- Polyester, epoxy, polyurethane (PU) grouts (e.g. Icos-it KC Range).
- Polyester / fibreglass and epoxy resin materials.

Fixing and anchoring for:

- Small anchors.
- Fasteners.
- Railway fasteners.

CHARACTERISTICS / ADVANTAGES

- Application temperature range +10 °C to +30 °C.
- Suitable for dry and damp concrete substrates.
- Easy to mix and apply.
- Very good adhesion to a range of construction materials.

- Hardens without shrinkage.
- Different coloured components (for mixing control).
- No primer needed.
- High initial and ultimate mechanical strength.
- Impermeable to liquids and water vapour.
- Good chemical resistance.

ENVIRONMENTAL INFORMATION

- Conforms with LEED v4 MR credit: Building product disclosure and optimization — Environmental Product Declarations (Option 1).
- Conforms with LEED v4 MR credit: Building product disclosure and optimization — Material ingredients (Option 2).
- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU).

APPROVALS / STANDARDS

- CE / UKCA marking and declaration of performance based on EN 1504-4 Products and systems for the protection and repair of concrete structures — Structural bonding.
- CE / UKCA marking and declaration of performance based on EN 1504-6 Products and systems for the protection and repair of concrete structures — Anchoring reinforcing steel bar.

PRODUCT INFORMATION

Product Declaration	EN 1504-4: Structural bonding EN 1504-6: Anchoring	
Chemical Base	Epoxy resin	
Packaging	1.0 kg (A+B) metal tin 8 × 1.0 kg carton boxes	4.5 kg (A+B) plastic pail Pre-batched unit
Shelf Life	24 months from date of production	
Storage Conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.	
Colour	Part A	Light grey
	Part B	Dark grey
	Parts A+B mixed	Concrete grey
Density	Mixed resin: (1.5 ± 0.1) kg/l. Value at +23 °C.	

TECHNICAL INFORMATION

Compressive Strength	61 N/mm ² (EN 12190)			
	Curing time	+10 °C	+23 °C	+30 °C (ASTM D695)
	1 day	~5 N/mm ²	~35 N/mm ²	-
	3 days	~40 N/mm ²	~42 N/mm ²	~55 N/mm ²
	7 days	~45 N/mm ²	~48 N/mm ²	~60 N/mm ²
	14 days	~51 N/mm ²	~52 N/mm ²	-
Modulus of Elasticity in Compression	~3300 N/mm ² (14 days at +23 °C) (ASTM D695)			
	~5000 N/mm ² (EN 13412)			
Flexural Strength	Curing time	+10 °C	+23 °C	+30 °C (EN ISO 178)
	1 day	~10 N/mm ²	~18 N/mm ²	-
	3 days	~35 N/mm ²	~37 N/mm ²	-
	7 days	~40 N/mm ²	~40 N/mm ²	~35 N/mm ²
	14 days	~42 N/mm ²	~42 N/mm ²	-
Flexural E-Modulus	~3700 N/mm ² (14 days at +23 °C) (EN ISO 178)			
Tensile Strength	Curing time	+10 °C	+23 °C	+30 °C (EN ISO 527-2)
	1 day	~10 N/mm ²	~16 N/mm ²	-
	3 days	~28 N/mm ²	~30 N/mm ²	-
	7 days	~34 N/mm ²	~35 N/mm ²	-
	14 days	~36 N/mm ²	~37 N/mm ²	-
Tensile Modulus of Elasticity	~3800 N/mm ² (14 days at +23 °C) (EN ISO 527-2)			
Elongation at Break	(1.4 ± 0.1) % (14 days at +23 °C) (EN ISO 527-2)			
Shear Strength	~11 MPa (EN 12615)			
Tensile adhesion strength	Pull-Out Resistance	≤ 0.60 mm at load of 75 kN		(EN 1881)
	Pull-Out railway applications	No damage at 60 kN		(EN 13146-10)
	Fastening systems	~100 kN		
	Bond/adhesion strength	Pass		(EN 12636)

	Curing time	Substrate	Curing temperature	Adhesion strength	(EN 12188; EN 1542; EN ISO 4624)
	7 days	Concrete dry	+10 °C	> 3 N/mm² *	
	7 days	Concrete moist	+10 °C	> 3 N/mm² *	
	7 days	Steel	+25 °C	~15 N/mm²	
	*100 % concrete failure				
Creep	Durability/Creep under tensile loads		≤ 0.6 mm at load of 50 kN after 3 months		(EN 1544)
Shrinkage	< 0.1 %				(EN 12617-1)
Coefficient of Thermal Expansion	(8.7 × 10 ⁻⁵ ± 0.1 × 10 ⁻⁵) 1/K (linear expansion between +23 °C and +60 °C)				(EN 1770)
Electrical Resistivity	4.3 GΩ				(EN 50122-2)
Glass transition temperature	64 °C				(EN 12614)
Heat deflection temperature	Curing time	Curing temperature	HDT		(ASTM D648)
	7 days	+23 °C	+47 °C		
Thermal Compatibility	Durability		Pass		(EN 13733)
Resistance to moisture	Sensitivity to water		Pass		(EN 12636)
Reaction to Fire	Class C–s1,d0 Class B _{FL} –s1				(EN 13501-1)

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 1 : 2 by weight or volume																												
Consumption	~1.5 kg/m² per mm of thickness, if used as a continuous layer. 0.7 kg/m² – 1.0 kg/m² is the quantity normally needed for bonding wet fresh concrete to hardened prepared concrete. For small anchors or fasteners (consumption in grams per hole): <table> <tr> <th>Hole / Re-bar Diameter</th><th>50 mm depth</th><th>80 mm depth</th><th>100 mm depth</th><th>120 mm depth</th><th>150 mm depth</th></tr> <tr> <td>10 mm / 6 mm</td><td>3.8 g</td><td>6.0 g</td><td>7.5 g</td><td>9.0 g</td><td>11.3 g</td></tr> <tr> <td>12 mm / 8 mm</td><td>4.7 g</td><td>7.5 g</td><td>9.4 g</td><td>11.3 g</td><td>14.1 g</td></tr> <tr> <td>14 mm / 10 mm</td><td>5.7 g</td><td>9.0 g</td><td>11.3 g</td><td>13.6 g</td><td>17.0 g</td></tr> </table> These figures are theoretical and do not take into account for any additional material due to surface porosity, surface profile, variations in level or wastage, etc.					Hole / Re-bar Diameter	50 mm depth	80 mm depth	100 mm depth	120 mm depth	150 mm depth	10 mm / 6 mm	3.8 g	6.0 g	7.5 g	9.0 g	11.3 g	12 mm / 8 mm	4.7 g	7.5 g	9.4 g	11.3 g	14.1 g	14 mm / 10 mm	5.7 g	9.0 g	11.3 g	13.6 g	17.0 g
Hole / Re-bar Diameter	50 mm depth	80 mm depth	100 mm depth	120 mm depth	150 mm depth																								
10 mm / 6 mm	3.8 g	6.0 g	7.5 g	9.0 g	11.3 g																								
12 mm / 8 mm	4.7 g	7.5 g	9.4 g	11.3 g	14.1 g																								
14 mm / 10 mm	5.7 g	9.0 g	11.3 g	13.6 g	17.0 g																								
Layer Thickness	~1 mm maximum																												
Sag Flow	Non-sag up to ~1 mm thickness on vertical surfaces				(EN 1799)																								
Product Temperature	Maximum		+30 °C																										
	Minimum		+10 °C																										
Ambient Air Temperature	Maximum		+30 °C																										
	Minimum		+10 °C																										

Dew Point

Beware of condensation.

Steel substrate temperature during application must be at least +3 °C above dew point.

Substrate Temperature

Maximum	+30 °C
Minimum	+10 °C

Pot Life

Temperature	Pot Life (200 g)	(ISO 9514)
+10 °C	~120 minutes	
+23 °C	~45 minutes	
+30 °C	~35 minutes	

The pot-life begins when Parts A+B are mixed. It is shorter at high temperatures and longer at low temperatures. The greater the quantity mixed, the shorter the pot-life. To obtain longer workability at high temperatures, the mixed adhesive may be divided into smaller quantities. Another method is to chill Parts A+B before mixing (although not below +5 °C).

Open Time

Temperature	Open Time	(EN 12189)
+10 °C	~150 minutes	
+23 °C	~90 minutes	
+30 °C	~60 minutes	

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.

LIMITATIONS

- Sikadur® resins are formulated to have low creep under permanent loading. However due to the creep behaviour of all polymer materials under load, when using adhesive for structural applications, the long term structural design load must account for creep. Generally, the long term structural design load must be lower than 20–25 % of the failure load. A structural engineer must be consulted for design calculations for specific structural applications.
- When using multiple units during application, do not mix the following unit until the previous one has been used in order to avoid a reduction in workability and handling time.
- For heavy components positioned vertically or overhead, provide temporary support.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS**SUBSTRATE QUALITY****CONCRETE / MASONRY / MORTAR / STONE**

Concrete and mortar must be at least 3–6 weeks old. Substrate surfaces must be sound, clean, dry or matt damp. Free from standing water, ice, dirt, oil, grease, coatings, laitance, efflorescence, old surface treatments, all loose particles and any other surface contaminants that could affect adhesion of the bonding agent.

STEEL

Surfaces must be clean, dry, free from oil, grease, coatings, rust, scale, all loose particles and any other surface contaminants that could affect adhesion of the bonding agent.

WOOD

Substrate surfaces must be sound, clean, dry and free from dirt, oil, grease, coatings, all loose particles and any other surface contaminants that could affect adhesion of the bonding agent.

POLYESTER / EPOXY / CERAMICS / GLASS

Surfaces must be clean, dry, free from oil, grease and any other surface contaminants that could affect adhesion of the bonding agent.

SUBSTRATE PREPARATION**CONCRETE / MASONRY / MORTAR / STONE**

Substrates must be prepared mechanically using suitable abrasive blast cleaning, needle gunning, light scabbling, bush hammering, grinding or other suitable equipment to achieve an open-textured, gripping surface profile.

STEEL

Surfaces must be prepared mechanically using suitable abrasive blast cleaning, grinding, rotating wire brush or other suitable equipment to achieve a bright metal finish with a surface profile to satisfy the necessary tensile adhesion strength requirement. Avoid dew point conditions before and during application.

WOOD

Surfaces must be prepared by planing, sanding or other suitable equipment.

POLYESTER / EPOXY

Surfaces must be prepared by abrading using suitable equipment.

CERAMICS / GLASS

Surfaces must be prepared by abrading using suitable equipment. Do not apply to siliconised substrates.

ALL SUBSTRATES

All dust and loose material must be completely removed from all substrate surfaces before application of the product by vacuum / dust removal equipment.

APPLICATION

1. Apply the mixed Sikadur®-32+ to the prepared substrate by brush, roller, spray or trowel, ensuring uniform and complete coverage.
2. For optimum adhesion, apply adhesive to both substrates that require bonding. On damp prepared concrete substrates, always apply by brush and work the product well into the substrate.
3. For bonding wet fresh concrete to hardened prepared concrete, place the concrete whilst the resin layer is still 'tacky'. If the product becomes glossy and loses 'tackiness', apply another coat and proceed to place concrete.
4. For small anchors or fasteners, clean the hole thoroughly with a special round steel brush and with compressed air (minimum pressure 6 bar), starting from the bottom.
5. Once the hole is completely clean and free of any loose particles or dust, pour Sikadur®-32+ in the hole, avoiding entrapping air.
6. Insert the anchor / fastener with a rotary motion within the adhesive open time. Some of the adhesive must flow out of the hole.
7. During the resin hardening time, the anchor must not be moved or loaded

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened / cured material can only be mechanically removed.

LOCAL RESTRICTIONS

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.

LEGAL NOTES

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Product Data Sheet

Sikadur®-32+

June 2022, Version 01.01
020204030010000299

Sikadur-32+-en-GB-(06-2022)-1-1.pdf

PRODUCT DATA SHEET

Sikadur-Combiflex® CF Adhesive Normal

2-part epoxy adhesive for the Sikadur-Combiflex® SG System

PRODUCT DESCRIPTION

Sikadur-Combiflex® CF Adhesive Normal is a 2-part epoxy based thixotropic adhesive for bonding the Sikadur-Combiflex® SG modified flexible Polyolefin (FPO) waterproofing tapes to different substrates. Internal and external use. Application temperature range +10 °C to +30 °C. It is part of the Sikadur-Combiflex® SG System.

USES

- Adhesive for the Sikadur-Combiflex® SG System

CHARACTERISTICS / ADVANTAGES

- Easy to mix and apply
- Excellent adhesion to many materials
- Performs well within a wide temperature range

- Good resistance to many chemicals
- No primer needed
- High mechanical resistance

ENVIRONMENTAL INFORMATION

- Conformity with LEED v4 MRc 2 (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations
- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization – Material Ingredients
- IBU Environmental Product Declaration (EPD)

APPROVALS / STANDARDS

- Conforms to the requirements of EN 1504-4 - Structural bonding
- Methane gas transmission rate, ISO 15105-1, Versaperm, Report No. LR2282

PRODUCT INFORMATION

Chemical Base	Epoxy resin and selected fillers	
Packaging	6 kg (A+B) pre-batched unit	Pallets of 432 kg (72 × 6 kg)
	15 kg bulk container	Part A, pallets of 390 kg (39 × 10 kg)
	10 kg Part A + 5 kg Part B	Part B, pallets of 500 kg (100 × 5 kg)
	30 kg bulk container	Part A, pallets of 780 kg (39 × 20 kg)
	20 kg Part A + 10 kg Part B	Part B, pallets of 390 kg (39 × 10 kg)
	Refer to current price list for packaging variations.	
Colour	Resin-Part A	White
	Hardener-Part B	Dark grey
	Part A+B mixed	Light grey
Shelf Life	24 months from date of production	
Storage Conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C.	

Always refer to packaging.

Density	Part A	~1,7 kg/l
	Part B	~1,7 kg/l
	Mixed resin	~1,7 kg/l
	All Density values at +23 °C.	
Product Declaration	EN 1504-4 - Structural bonding	

TECHNICAL INFORMATION

Compressive Strength	Curing time	Curing temperature			(ASTM D 695-96)
		+10 °C	+23 °C	+30 °C	
	3 days	~35 N/mm²	~48 N/mm²	~52 N/mm²	
	7 days	~41 N/mm²	~50 N/mm²	~54 N/mm²	
	14 days	~43 N/mm²	~54 N/mm²	~55 N/mm²	
Modulus of Elasticity in Compression	at +5 °C		~4200 N/mm²		(ASTM D 695)
	at +23 °C		~3500 N/mm²		
Tensile adhesion strength	Substrate	Adhesion strength			(EN 1542)
	Concrete dry	> 4 N/mm² *			
	Concrete (mat damp)	> 4 N/mm² *			
	Steel (blast cleaned)	> 10 N/mm²			
	*failure in concrete				
Coefficient of Thermal Expansion	5,3 × 10 ⁻⁵ (± 0,2 × 10 ⁻⁵) 1/K (linear expansion between -20 °C and +40 °C)				(EN ISO 1770)
Chemical Resistance	Refer to Sikadur-Combiflex® SG System system data sheet or contact Sika Technical Services for specific information.				
Service Temperature	-30 °C min. / +38 °C max.				

SYSTEM INFORMATION

System Structure	Refer to Sikadur-Combiflex® SG System data sheet or contact Sika Technical Services for specific information.
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APPLICATION INFORMATION

Mixing Ratio	Part A:B = 2:1 parts by weight or volume
Consumption	Refer to Sikadur-Combiflex® SG System data sheet. Depends on type of tape or strip.
Product Temperature	+10 °C min. / +30 °C max.
Ambient Air Temperature	+10 °C min. / +30 °C max.
Dew Point	Beware of condensation. Steel substrate temperature during application must be at least +3 °C above dew point.
Substrate Temperature	+10 °C min. / +30 °C max.
Substrate Moisture Content	Cementitious substrates: Substrate must be dry or matt damp (no standing water). Brush the adhesive well into the substrate if matt damp.

Temperature	Pot life	Open time
+10 °C	~125 minutes	–
+23 °C	~50 minutes	~70 minutes
+30 °C	~25 minutes	–

If larger quantities are being mixed the temperature of Sikadur-Combiflex® CF Adhesive Normal will increase due to the chemical reaction, resulting in a reduced pot life.

Waiting Time / Overcoating

Sikadur-Combiflex® CF Adhesive Normal may be overcoated with an epoxy coating. If this is required, do not smooth the adhesive with detergent. If waiting time between application of adhesive and overcoating is to be longer than 2 days, the adhesive must be blinded to excess with quartz sand immediately after application.

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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Concrete/masonry/mortar/stone

Note: Concrete and mortar must be at least 3–6 weeks old.

Substrate surfaces must be sound, clean, dry or matt damp. Free from standing water, ice, dirt, oil, grease, coatings, laitance, efflorescence, old surface treatments, all loose particles and any other surface contaminants that could affect adhesion of the adhesive.

Steel

Surfaces must be clean, dry, free from oil, grease, coatings, rust, scale, all loose particles and any other surface contaminants that could affect adhesion of the adhesive.

SUBSTRATE PREPARATION

Concrete/masonry/mortar/stone

Substrates must be prepared mechanically using suitable abrasive blast cleaning, needle gunning, light scabbling, bush hammering, grinding or other suitable equipment to achieve an open textured gripping surface profile.

Steel

Surfaces must be prepared mechanically using suitable abrasive blast cleaning, grinding, rotating wire brush or other suitable equipment to achieve a bright metal finish with a surface profile similar to aluminium oxide paper medium grade. Avoid dew point conditions before and during application.

All substrates

All dust and loose material must be completely removed from all substrate surfaces before application of the product by vacuum / dust removal equipment.

MIXING

IMPORTANT

Avoid over mixing to minimise air entrainment.

Note: Use a spiral paddle in an electric single or double paddle mixer (Bulk container) at a maximum speed of 300 rpm.

Pre-batched unit

1. Mix Part A (resin) for ~60 seconds.
2. Add Part B (hardener) to Part A (resin).
3. Mix Parts A+B continuously for ~3 minutes until a uniformly smooth, coloured mix is achieved.
4. To ensure thorough mixing, pour materials into another clean container and mix again to achieve a smooth and uniform mix.

Bulk container

Note: For large volume mixing a suitable pan mixer can be used.

Note: Mix only the quantity which can be used within its pot life.

Add both parts in the correct proportion into a suitable clean, dry container and mix in the same way as for the pre-batched unit.

APPLICATION METHOD / TOOLS

Refer to Sikadur-Combiflex® SG System data sheet.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Colma-Cleaner immediately after use. Hardened or cured material can only be removed mechanically.

LOCAL RESTRICTIONS

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.

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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Product Data Sheet
Sikadur-Combiflex® CF Adhesive Normal
March 2021, Version 03.01
020703151000000002

Sikadur-CombiflexCFAdhesiveNormal-en-GB-(03-2021)-3-1.pdf



SikaProof® A-05/-08/-12

Fully bonded FPO sheet membrane waterproofing system for basement and other below ground structures

Product Description

SikaProof® A-05/-08/-12 is a fully and permanently bonded, self-adhesive, composite sheet membrane waterproofing system. It consists of an embossed polyolefin (FPO) membrane laminated with a sealant grid and a non-woven fleece. SikaProof® A-05/-08/-12 is cold-applied and pre-applied, as it is installed without heat or open-flames, and before the steel reinforcement is fixed and the concrete is poured.

Uses

Damp-proofing, concrete protection and waterproofing for basements and other below ground concrete structures against ground water ingress:

- Below ground concrete slabs
- Below ground walls with both single and double -faced formwork
- Extensions and reconstruction works
- For prefabricated constructions

Characteristics / Advantages

- Cold-applied (no pre-heating or open flames) and pre-applied, before the reinforcement is fixed and the concrete is poured
- Fully and permanently bonded to the concrete structure
- No lateral water underflow or migration between the concrete structure and the membrane system
- High watertightness tested according various standards
- Easy to install with fully adhered joints (no welding required)
- Weathering resistant with temporary UV-stability
- Resistant to ageing
- High flexibility and crack-bridging ability
- Resistant to aggressive mediums in natural ground water and soil
- Can be combined with other approved Sika waterproofing systems including:
 - Sikaplan® WT membranes, FPO-based sheet waterproofing membranes
 - Sikadur-Combiflex SG system, FPO-based joint sealing system

Tests

Approval / Standards

- Product Declaration EN 13967 – Flexible sheets for waterproofing. CE Certificate No. 1349-CPD-065, 16.08.2011
- DoP - SikaProof A05 - 02 07 04 10 300 0 000001 1193
- DoP - SikaProof A08 - 02 07 04 10 300 0 000002 1193
- DoP - SikaProof A12 - 02 07 04 10 300 0 000003 1193
- Radon permeability, Slovak Medical University, for SikaProof A-12, test report No. E-215/2011, 15.11.2011
- Radon permeability, Slovak Medical University, for SikaProof A-08, test report No. E-214/2011, 07.12.2011



Product Data

Form

Appearance / Colours	Light yellow sheet membrane, laminated with a fleece layer		
Packaging	SikaProof® A-05/-08/-12 rolls are wrapped individually in a yellow PE-foil.		
		Roll width	Roll length
	SikaProof® A-05	1 m and 2 m	30 m
	SikaProof® A-08	1 m and 2 m	25 m
	SikaProof® A-12	1 m and 2 m	20 m

Storage

Storage Conditions / Shelf life	SikaProof® A-05/-08/-12 membrane rolls have a shelf-life of 18 months from date of production if stored properly in unopened, undamaged, original packaging, in a horizontal position, in dry conditions and at temperatures between +5°C and +30°C. They must be protected from direct sunlight, rain, snow and ice, etc. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage.
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Technical Data

Chemical Base	Membrane Layer:	Flexible Polyolefin (FPO)			
	Sealant grid:	Polyolefin (PO)			
	Fleece layer:	Polypropylene (PP)			
Product Declaration	EN 13967, mandatory for European countries				
Visible Defects	Pass				EN 1850-2
Straightness	≤ 50 mm / 10 m				EN 1848-2
Mass per Unit Area	SikaProof® A-05	0.80 kg/m ²	(-5 /+10%)		EN 1849-2
	SikaProof® A-08	1.15 kg/m ²	(-5 /+10%)		
	SikaProof® A-12	1.50 kg/m ²	(-5 /+10%)		
Thickness		Total Thickness (=deff)	Master Membrane Thickness	Deviation	EN 1849-2
	SikaProof® A-05	1.10 mm	0.50 mm	(-5 /+10%)	
	SikaProof® A-08	1.35 mm	0.80 mm	(-5 /+10%)	
	SikaProof® A-12	1.70 mm	1.20 mm	(-5 /+10%)	
Watertightness to Liquid Water	Pass				EN 1928 B (24 h/60 kPa)
Resistance to Impact	SikaProof® A-05	≥ 150 mm			EN 12691
	SikaProof® A-08	≥ 250 mm			
	SikaProof® A-12	≥ 350 mm			
Durability of Watertightness against Ageing	Pass				EN 1296 (12 weeks) EN 1928 B (24h / 60 kPa)
Durability of Watertightness against Chemicals	Pass				EN 1847 (28 d/+23 °C) EN 1928 B (24h / 60 kPa)
Accelerated Ageing in an Alkaline Environment, Tensile Strength	Pass				EN 1847 (28 d/+23 °C) EN 1928 B (24 h/60 kPa)

Resistance to Tear - Nail Shank (Machine Direction)	SikaProof® A-05	≥ 275 N	EN 12310-1
	SikaProof® A-08	≥ 400 N	
	SikaProof® A-12	≥ 550 N	
Resistance to Tear - Nail Shank (Cross Direction)	SikaProof® A-05	≥ 275 N	EN 12310-1
	SikaProof® A-08	≥ 400 N	
	SikaProof® A-12	≥ 550 N	
Joint Strength	SikaProof® A-05	≥ 175 N / 50 mm	EN 12317-2
	SikaProof® A-08	≥ 250 N / 50 mm	
	SikaProof® A-12	≥ 250 N / 50 mm	
Tensile Strength (Machine Direction)	SikaProof® A-05	≥ 250 N / 50 mm	EN 12311-1
	SikaProof® A-08	≥ 400 N / 50 mm	
	SikaProof® A-12	≥ 675 N / 50 mm	
Tensile Strength (Cross Direction)	SikaProof® A-05	≥ 250 N / 50 mm	EN 12311-1
	SikaProof® A-08	≥ 375 N / 50 mm	
	SikaProof® A-12	≥ 550 N / 50 mm	
Elongation (Machine Direction)	SikaProof® A-05	≥ 300 %	EN 12311-1
	SikaProof® A-08	≥ 450 %	
	SikaProof® A-12	≥ 475 %	
Elongation (Cross Direction)	SikaProof® A-05	≥ 500 %	EN 12311-1
	SikaProof® A-08	≥ 500 %	
	SikaProof® A-12	≥ 550 %	
Water Vapour Transmission	SikaProof® A-05	0.75 – 0.95 g/m² x 24 h 34'500 – 36'600 m	EN 1931 (+23°C/75% r.h.)
	SikaProof® A-08	0.75 – 0.95 g/m² x 24 h 35'500 – 37'600 m	
	SikaProof® A-12	0.50 – 0.75 g/m² x 24 h 45'100 – 47'800 m	
Resistance to Static Load	≥ 20 kg	EN 12730 (Method B, 24 h/20 kg)	
Reaction to Fire	Class E	EN 13501-1:2000	
Additional Data (not CE relevant)			
Radon Permeability	SikaProof® A-08	(2.0 +/- 0.3) x 10 ⁻¹² m²/s	Certificate E-214/2011
	SikaProof® A-12	(5.3 +/- 0.7) x 10 ⁻¹² m²/s	Certificate E-215/2011
Water resistance to lateral water underflow of membrane system	SikaProof® A-08	≥ 7.0 bar	ASTM D 5385 mod.
	SikaProof® A-12	≥ 7.0 bar	

System Information

System Components

- SikaProof® A-05, membrane in rolls of widths 1.0 and 2.0 m
- SikaProof® A-08, membrane in rolls of widths 1.0 and 2.0 m
- SikaProof® A-12, membrane in rolls of widths 1.0 and 2.0 m
- SikaProof® Tape-150, self-adhesive tape for internal jointing, based on butyl-rubber, in 150 mm width
- SikaProof® ExTape-150, self-adhesive tape for external jointing, based on butyl-rubber, in 150 mm width

Accessories

- SikaProof® A -08 / -12 Edge, preformed sheet in L-shape, to form the waterproofing system edges, corners and connections
- SikaProof® Patch-200, external membrane patching tape for sealing any local damage or penetrations, supplied in 200 mm width
- SikaProof® FixTape-50, for fixing and repairing around details and penetrations
- SikaProof® MetalSheet, to create special details, such as pile heads

Application Details

Recommended System

General criteria	SikaProof® A-05	SikaProof® A-08	SikaProof® A-12
Typical use	Damp-proofing / concrete protection / waterproofing	Waterproofing for civil engineered structures	Waterproofing for civil engineered structures
Typical application	Slab on ground/ Walls / Precast elements	Base slabs / Walls / Precast elements	Base slab / Walls / Precast elements
Max. head of water (pressure)	< 5 m (0.5 bar)	< 10 m (1.0 bar)	< 15 m (1.5 bar)
Crack-bridging ability	Not tested	≤ 1 mm	≤ 2 mm

This spreadsheet is not exhaustive. It can be used as general selection guide for specific decision criteria.

For further more information how to choose the appropriate Sika solution for basement waterproofing contact your local Sika representative.

Substrate Quality

The substrate for the SikaProof® A-05/-08/-12 membrane needs sufficient stability to avoid movement during the construction works.

A smooth, uniform and clean substrate surface is essential to prevent membrane damage. Large gaps and voids (> 12-15 mm) be closed before installation of the SikaProof® A-05/-08/-12 membrane system. The substrate can be damp or slightly wet, but ponding water must be avoided.

Suitable substrates to fix the SikaProof® A-05/-08/-12 membrane system onto are:

- Concrete blinding
- Formwork
- Rigid thermal insulation
- Geotextile
- Compacted soil/fill with geotextile (only for low requirements)
- Plywood

Application Conditions / Limitations

Substrate Temperature +5°C min. / + 35°C

Ambient Air Temperature +5°C min. / + 35 °C

Application Instructions

Application Method

SikaProof® A-05/-08/-12 is a cold-applied and pre-applied sheet membrane waterproofing system, installed before the reinforcement is fixed and the concrete is poured.

The joints of SikaProof® A-05/-08/-12 membranes are not welded, they are fully adhered by self-adhesive strips prefabricated on the membrane sheet or with detailing tapes.

Installation procedure:

1. Ensure the substrate is correctly constructed and prepared, see Section 5.1.
2. Install the pre-formed SikaProof® A Edge sheet for the perimeters and terminations / connections.
3. Form the corners with the same pre-fabricated Edge sheet and adhere them externally with SikaProof® ExTape-150 and internally with SikaProof® Tape-150.
4. Lay the SikaProof® A-05/-08/-12 membranes on the horizontal and vertical surfaces using the 1.0 or 2.0 m width rolls (as appropriate) and adhere the overlap joints with the self-adhesive strips lengthways and for cross joints using the SikaProof® Tape-150 inside and SikaProof® ExTape-150 outside.
5. Form standard details, such as pipe penetrations, shaft connections, pits, pile heads, expansion joints and shuttering anchors use the appropriate accessory products.
6. Finally, check all the overlap joints, connections and details, to ensure they are correctly and fully adhered using the SikaProof® Tape-150 and SikaProof® ExTape-150.
7. After the SikaProof® membrane system is applied the reinforcement will be fixed and the concrete will be poured.
8. After removing the formwork penetrations, such as shuttering anchors, any membrane damage and any construction joints can be sealed on the external side (on the membrane) with the SikaProof® Patch-200 or by Sikadur® Combiflex SG system.

For further more detailed information about the installation procedure, please refer to the SikaProof® A-05/-08/-12 Method Statement or Application Manual.

Notes on Application / Limitations

SikaProof® A-05/-08/-12 membranes must only be installed by trained and approved Sika contractors.

SikaProof® A-05/-08/-12 membranes are not UV stabilised and cannot be installed on structures permanently exposed to UV light and weathering.

Do not apply SikaProof® A-05/-08/-12 membranes during continuous or prolonged rainfall.

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.

Local Restrictions

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.

Ecology, Health and Safety Information

A Safety Data Sheet following EC- Regulation 1907/2006, Article 31 is not needed to bring the product to the market, to transport or to use it. The product does not damage the environment when used as specified.

REACH

European Community Regulation on chemicals and their safe use (REACH: EC 1907/2006)

This product is an article within the meaning of Regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. Therefore, there are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation.

Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w).

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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Certificate No. EMS 4308



Certificate No. FM 12504

PRODUCT DATA SHEET

SikaProof® Fix Tape-50

Double-sided adhesive tape for the SikaProof® Waterproofing System

PRODUCT DESCRIPTION

SikaProof® Fix Tape-50 is a double-sided, self-adhesive tape based on a butyl rubber adhesive covered with a release liner

USES

SikaProof® Fix Tape-50 may only be used by experienced professionals.

- Sealing and bonding of details within the SikaProof® Waterproofing System.

CHARACTERISTICS / ADVANTAGES

- Good adhesion and sealing capability
- Good durability
- Self adhesion allows easy and fast installation

PRODUCT INFORMATION

Packaging	5 rolls packed in one box
Shelf Life	24 months from date of production
Storage Conditions	Product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between +5 °C and +30 °C. Always refer to packaging.
Appearance / Colour	White release liner over black butyl rubber adhesive.
Length	20 m
Width	50 mm
Thickness	1.50 mm (-5/+10 %)

SYSTEM INFORMATION

System Structure	SikaProof® FixTape-50 is a system accessory for sealing specific details within the SikaProof® Waterproofing System. For more detailed information, refer to the Sika Method Statement: SikaProof® A / SikaProof® A+.
Compatibility	For materials in direct contact (such as any synthetics etc.) the compatibility must be evaluated before full project application. Contact Sika Technical Services for additional information.

APPLICATION INFORMATION

Ambient Air Temperature +5 °C min. / +45 °C max.

Substrate Temperature +5 °C min. / +60 °C max.

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.

FURTHER DOCUMENTS

- Sika Method Statement: SikaProof® A / SikaProof® A+
- Sika Application Manual: SikaProof® A / SikaProof® A+

LIMITATIONS

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

- Refer to the Sika Method Statement: SikaProof® A / SikaProof® A+
- Product Data Sheet: SikaProof® A / SikaProof® A+

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The contact surfaces of the membrane must be dry, clean and free of materials that could impair adhesion. Contaminants, such as dirt, dust, oil, bitumen and debonding agents, such as surfactants and silicones must be removed.

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.

Reference must be made to the Sika® Method Statement: SikaProof® A / SikaProof® A+.

LOCAL RESTRICTIONS

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.

LEGAL NOTES

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Product Data Sheet

SikaProof® Fix Tape-50
March 2024, Version 02.02
020720308000000004

SikaProofFixTape-50-en-GB-(03-2024)-2-2.pdf

PRODUCT DATA SHEET

SikaProof® Patch-200 B

Self-adhesive tape for external sealing of the SikaProof® waterproofing system

PRODUCT DESCRIPTION

SikaProof® Patch-200 B is a single-sided, self-adhesive tape based on SikaProof® membrane, laminated with a butyl adhesive covered with a release liner.

USES

SikaProof® Patch-200 B may only be used by experienced professionals.

- Sealing and bonding overlap joints, connections and details within the SikaProof® waterproofing system.

CHARACTERISTICS / ADVANTAGES

- Good watertightness
- Weather resistant with temporary UV-stability
- Good adhesion and durability of the Butyl-adhesive
- Self adhesion allows easy and fast installation

PRODUCT INFORMATION

Packaging	1 roll packed in a box
Appearance / Colour	White release liner over black adhesive on a light yellow membrane.
Shelf Life	24 months from date of production
Storage Conditions	Product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between +5 °C and +30 °C. Always refer to packaging.
Length	20 m
Width	200 mm
Thickness	2,20 mm (-5/+10 %)

SYSTEM INFORMATION

System Structure	SikaProof® Patch-200 B is a system accessory for jointing and sealing details within the SikaProof® waterproofing system. For more detailed information, refer to Sika Method Statement: SikaProof® A / SikaProof® A+.
Compatibility	For materials in direct contact (such as any synthetics etc.) the compatibility must be evaluated before full project application. Contact Sika Technical Services for additional information.

APPLICATION INFORMATION

Ambient Air Temperature	+5 °C min. / +45 °C max.
Substrate Temperature	+5 °C min. / +60 °C max.

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.

FURTHER DOCUMENTS

- Sika Method Statement: SikaProof® A / SikaProof® A+
- Sika Application Manual: SikaProof® A / SikaProof® A+

LIMITATIONS

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

- Refer to the Sika Method Statement: SikaProof® A / SikaProof® A+
- Product Data Sheet: SikaProof® A / SikaProof® A+

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

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APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The contact surfaces must be dry, clean and free of materials that could impair the adhesion. Contaminants, such as dirt, dust, oil, bitumen and de-bonding agents, such as surfactants and silicones must be removed.

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.

SikaProof® Patch-200 B is a cold-applied and post-applied self-adhesive tape to seal joints, connections, penetrations. Additionally it repairs any damage to the external side of the SikaProof® system membrane. Reference must be made to the Sika Method Statement: SikaProof® A / SikaProof® A+.

LOCAL RESTRICTIONS

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.

LEGAL NOTES

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Product Data Sheet

SikaProof® Patch-200 B
November 2021, Version 02.02
020720308000000005

SikaProofPatch-200B-en-GB-(11-2021)-2-2.pdf

PRODUCT DATA SHEET

SikaProof® ExTape-150

SELF-ADHESIVE TAPE FOR EXTERNAL JOINTING OF SIKAPROOF A WATERPROOFING SYSTEM

PRODUCT DESCRIPTION

SikaProof® ExTape-150 is a self-adhesive tape based on a butyl adhesive for external jointing and detailing on SikaProof® A & P membrane systems. The tape is composed of a yellow carrier film and a divided release liner.

USES

SikaProof® ExTape-150 may only be used by experienced professionals.

- Sealing transverse overlap joints, connections and details within the SikaProof® A & P membrane systems.

CHARACTERISTICS / ADVANTAGES

- High adhesion and sealing ability
- Simple and fast to install
- Divided release liner for easy installation

PRODUCT INFORMATION

Packaging	4 rolls packed in one box. Individual roll size: Length 20 m/ Width 150 mm
Appearance / Colour	Top layer yellow carrier film coated with black butyl adhesive and bottom layer white divided release liner.
Shelf Life	24 months from date of production
Storage Conditions	Product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between + 5 °C and + 30 °C. Always refer to packaging.
Thickness	1,10 mm

SYSTEM INFORMATION

System Structure	System Components ▪ SikaProof® A-05 or A-08 /HC or A-12 /HC sheet membranes ▪ SikaProof P-12 self-adhesive sheet membrane ▪ SikaProof® Tape-150 A self-adhesive tape for internal jointing ▪ SikaProof® ExTape-150 self-adhesive tape for external jointing
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APPLICATION INFORMATION

Ambient Air Temperature	+5 °C min. / +35 °C max.
Substrate Temperature	Substrate bonding surface: Minimum +5 °C (Refer to important considerations for more information)

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The contact surface is the light yellow SikaProof® membrane side. It must be dry, clean and free of any materials that could impair adhesion. If the substrate requirements are not achieved, suitable measures must be taken. Contact Sika® Technical Services for more information.

APPLICATION METHOD / TOOLS

Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions.

Remove the release liner, apply onto the outside / membrane side of the membrane and press tape firmly using a pressure roller. For the SikaProof® A system, SikaProof® ExTape-150 is used together with SikaProof® Tape-150 A for easy, fast and secure double bonding of joints and connections.

FURTHER DOCUMENTS

- Sika® Method Statement: SikaProof® A/HC
- Sika® Method Statement: SikaProof® P

LIMITATIONS

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

- The substrate quality and conditions must be fulfilled.
- If SikaProof® ExTape-150 has to be applied under wet conditions or temperatures below +5 °C. Exceptions are possible under special circumstances with appropriate precautions. Contact Sika® Technical Services for more information.
- The SikaProof® ExTape-150 is not permanently UV and weather resistant. Therefore the membrane system must not be installed on structures permanently exposed to UV light and weathering.
- SikaProof® ExTape-150 has to be protected as soon as possible or at the latest after 90 days or before the backfilling, whichever occurs first.

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.

LOCAL RESTRICTIONS

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.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w)

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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Product Data Sheet
SikaProof® ExTape-150
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PRODUCT DATA SHEET

SikaProof® Tape-150 A

FULLY BONDED, SELF-ADHESIVE TAPE FOR INTERNAL JOINTING OF SIKAPROOF A WATERPROOFING SYSTEM

PRODUCT DESCRIPTION

SikaProof® Tape-150 A is a self-adhesive tape, based on a polyacrylate adhesive on a yellow carrier film coated with the SikaProof A fully bonded system.

USES

SikaProof® Tape-150 A may only be used by experienced professionals.

SikaProof® Tape-150 A is used for sealing transverse overlap joints, connections and details within the SikaProof A membrane system (internal / fleece side) in combination with the SikaProof ExTape-150.

CHARACTERISTICS / ADVANTAGES

- Fully bonded to the concrete structure
- No lateral water underflow (like SikaProof® A system)
- High adhesion and sealing ability, especially in cool and damp conditions
- Easy and fast to install

APPROVALS / STANDARDS

Approved under BBA Certificate 13/5075 (SikaProof A Membranes) as an ancillary material for use with SikaProof A Membranes

PRODUCT INFORMATION

Packaging	2 rolls packed in one cardboard box, each roll 25 m long and 150 mm width. Rolls sold separately
Appearance / Colour	Top layer with white fleece and sealant (SikaProof® fully bonded system) coated on a yellow carrier film. Bottom layer with polyacrylate adhesive cover with a white release film.
Shelf Life	18 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging. (For expiry date see label)
Storage Conditions	Dry storage at temperatures from +5 °C up to +30 °C. Protect from direct sunlight, rain, snow, ice, humidity, etc. Store in a horizontal position. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage.
Thickness	1.70 mm

SYSTEM INFORMATION

System Structure	SikaProof® Tape-150 A is a system component for internal jointing of the SikaProof® A membrane system in combination with SikaProof® ExTape-150 for external jointing. For more detailed information please refer to the current Method Statement.
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APPLICATION INFORMATION

Ambient Air Temperature	minimum +5 °C / maximum +35 °C
Substrate Temperature	Surface to be bonded: Minimum +5 °C, if below appropriate measures must be applied.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The contact surface among others is the white fleece layer of SikaProof® A sheet membrane. It must be dry (or slightly damp), clean and free of any materials that could impair adhesion.

APPLICATION METHOD / TOOLS

Apply the SikaProof® Tape-150 A to the fleece side of the SikaProof® A sheet membrane:

- remove the release liner
- adhere the self-adhesive side of the tape to the fleece side of the membrane
- press it firmly using a pressure roller

SikaProof® Tape-150 A is used together with SikaProof® ExTape-150 for easy and secure double bonding of joints and connections.

For more detailed information about the installation method please refer to the Method Statement of the SikaProof® A system.

LIMITATIONS

The SikaProof® Tape-150 A must be used in compliance with the current Method Statement of the SikaProof® A system. It must only be installed by trained and approved Sika contractors.

- Do not install SikaProof® Tape-150 A during continuous or prolonged rain- or snowfall.
- The substrate quality and condition must be fulfilled or appropriate measure must be taken.
- SikaProof® Tape-150 A is not permanently UV resistant. Therefore the structural concrete must be placed within 4 weeks (28 days) after the SikaProof® A membrane system is installed.

For more detailed information and guidance refer to the current Method Statement for the SikaProof® A membrane system.

VALUE BASE

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