

BUILDING PRODUCT INFORMATION SHEET

Sikadur-Combiflex® SG-20 P

High performance expansion joint and crack sealing tape

DESCRIPTION

Sikadur-Combiflex® SG-20 P is a flexible waterproofing tape based on modified flexible Polyolefin (FPO) with advanced adhesion properties. Thickness 2.0 mm. The product is part of the Sikadur Combiflex® SG System.

USES

Sealing all types of joints and cracks in many different structures and applications including:

- Tunnels and culverts
- Hydroelectric power plants
- Sewage treatment plants
- Basements
- Water retaining structures
- Drinking water reservoirs

Sealing of:

- Movement joints
- Construction joints
- Pipe penetrations
- Cracks
- Building components where differential settlement is expected

FEATURES

- Advanced adhesion, no activation on site required
- Highly flexible - high crack and joint bridging ability
- Good chemical resistance
- Weathering and UV-resistant
- Root penetration resistant
- Performs well within a wide range of temperatures
- Plasticiser-free
- Hot air weldable
- Can be used in contact with potable/drinking water

APPROVALS / CERTIFICATES

- Drinking water AS/NZS 4020, Sikadur Combiflex® SG , ams Laboratories, Test report No. 1116525
- Drinking water KTW, Sikadur Combiflex® SG , HY, Certificate No. K-248079-14-Ko
- Root Resistance CEN/TS 14416, Sikadur Combiflex® SG, SKZ, Test report No. 89643/09
- Sanitary Compliance XP P 41-250, Sikadur Combiflex® SG , CARSO, Certificate No. 16 MAT LY 108
- Water Regulations up to 50 °C BS6920-1:2000, Sikadur Combiflex® SG, WRAS, Approval No. 1708503
- Type testing EN 13967:2017-04, Sikadur Combiflex® SG-20, SKZ, Test report No:132501/18-II

PRODUCT INFORMATION

Product identifier	Sikadur-Combiflex® SG-20 P
Place of manufacture	Overseas
Composition	Modified flexible Polyolefin (FPO)
Packaging	1 roll of 25 m length Refer to current price list for packaging variations
Shelf life	36 months from date of production

Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions. Opened and unprotected rolls must be used within 2 months. Always refer to packaging.	
Appearance and colour	Flexible light grey membrane	
Length	25 m roll	
Width	150, 200 mm Other widths available on indent, depending on requirements.	
Thickness	2,0 mm	
Effective thickness	2.0 (-5 % / +10 %) mm	(EN 1849-2)
Mass per area	2095 g/m ² (-5 % / +10 %)	(EN 1849-2)

TECHNICAL INFORMATION

Shore D Hardness	35	(DIN 53505)
Resistance to impact	≥ 1500 mm	(EN 12691)
Resistance to root penetration	Pass	(CEN/TS 14416)
Tensile strength	≥ 16 N/mm ²	(EN 12311-2)
Elongation	> 750 % Maximum permissible permanent elongation < 25 % of non-adhered tape width Note: For higher joint movement, loop tape into the gap of the joint.	
Tear strength	> 50 N/mm	(EN12310-2)
Resistance to tear	MD / CMD ≥ 570 N	(EN12310-1)
Joint shear resistance	≥ 500 N/50 mm	(EN 12317-2)
Seam strength	> 300 N/50 mm (EN 12316-2) > 400 N/50 mm (EN 12317-2)	
Service temperature	-10 °C min. to +40 °C max	
Watertightness	Pass (Method B, 24 h / 60 kPa)	(EN 1928)
Chemical resistance	Tested according to EN 1847. Contact Sika Technical Services for additional information.	
Durability of watertightness against chemicals	Pass ((Ca(OH) ₂ , 28 d, 23°C) (EN 1847) Pass (Method B, 24h / 60 kPa) (EN 1928)	
Resistance to weathering	Artificial weathering: 7500 h passed	(EN ISO 4892-2/-3)
Durability of watertightness against ageing	Pass (12 weeks) (EN 1296) Pass (Method B, 24 h/ 60 kPa) (EN 1928)	
Reaction to fire	Class E	(EN 11925-2)

SYSTEM INFORMATION

System structure	Refer to Sikadur Combiflex® SG system data sheet
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APPLICATION INFORMATION

Ambient air temperature	Refer to the System Data Sheet of Sikadur Combiflex® SG System
Substrate temperature	Refer to the System Data Sheet of Sikadur Combiflex® SG System

MANUFACTURER AND IMPORTER INFORMATION

Manufacturer information	Address	Sika Supply Centre AG Industriestrasse 26 6060, Sarnen Switzerland
Importer information	Address	Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand
	Phone number	0800 745 269
	Website	https://nzl.sika.com/
	Email address	info@nz.sika.com
	NZBN	9429000018791

BUILDING CODE INFORMATION

Building Code clauses	B2 Durability: Performance clause B2.3.1 - (b) 15 years E2 External Moisture: Performance clause E2.3.3 F2 Hazardous Building Materials: Performance clause F2.3.1
Building Code compliance statements	Performance B2.3.1 (b) 15 years: This product has been evaluated in accordance with B2/VM1. It meets this durability requirement and will remain serviceable for 15 years, or more, when installed and maintained in accordance with the relevant Sika technical literature. nzl.sika.com . According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 2003. Performance E2.3.3: When this product is used in joints as part of a waterproofing system, in conjunction with a membrane / DPC under the concrete floor, or behind the concrete wall it contributes to the wall or floor meeting the requirements of E2.3.3 Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet nzl.sika.com for further information if required

BASIS OF PRODUCT DATA

All technical data in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

Refer to the Sikadur Combiflex® SG System Sika Method Statement and System Data Sheet.

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 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).

INSTALLATION REQUIREMENTS

The Sikadur Combiflex SG System must be installed by a trained and approved Sika Applicator

APPLICATION

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

MAINTENANCE REQUIREMENTS

Annual (or sooner if required) visual inspections of the membrane system should be undertaken to ensure that it hasn't been damaged. If necessary contact Sika on 0800SIKANZ for further information

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Sikadur-Combiflex® SG-20 P
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LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

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