

PRODUCT DATA 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 1.0mm and 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

CHARACTERISTICS / ADVANTAGES

- 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
- Plasticizer-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

Composition	Modified flexible Polyolefin (FPO)	
Packaging	1 roll of 25 m length Refer to current price list for packaging variations	
Appearance / Colour	Flexible light grey membrane	
Effective Thickness	1.0 mm and 2.0 mm (-5 % / +10 %)	(EN 1849-2)
Mass per unit area	2095 g/m ² (-5 % / +10 %)	(EN 1849-2)
Width	15, 20, 25, 30, 40, 50, 100, 200 cm	
Length	25 m roll	

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.	

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 %	(EN 12311-2)
	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)
Joint Shear Resistance	≥ 500 N/50 mm	(EN 12317-2)
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 Ageing	Pass (12 weeks)	(EN 1296)
	Pass (Method B, 24 h / 60 kPa)	(EN 1928)
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)
Reaction to Fire	Class E	(EN 11925-2)
Service Temperature	-10 °C min. to +40 °C max.	

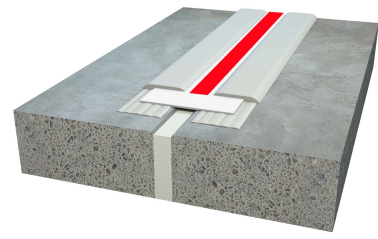
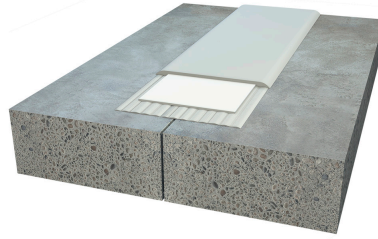
SYSTEMS

System Structure

Sikadur-Combiflex® SG System consists of a modified flexible Polyolefin (FPO) waterproofing tape and a Sikadur® epoxy adhesive

Construction joints and cracks

Movement joints



Flexible polyolefin tapes

Sikadur Combiflex® SG-10 P

Sikadur Combiflex® SG-20 P

Sikadur Combiflex® SG-10 M

Sikadur Combiflex® SG-20 M

Compatible Sikadur® adhesives

Sikadur®-31 C (can be used for contact with drinking water)

Note: The system configuration tabulated above must be followed.

APPLICATION INFORMATION

Consumption

Consumption Sikadur-Combiflex® SG Tape:
Sikadur®-31C per metre length

Tape width	Tape thickness	Adhesive consumption*
15 cm	1 mm	~ 1.0 kg/m
20 cm	1 mm	~ 1.2 kg/m
15 cm	2 mm	~ 1.1 kg/m
20 cm	2 mm	~ 1.4 kg/m
25 cm	2 mm	~ 1.7 kg/m
30 cm	2 mm	~ 2.0 kg/m

*The consumption can vary dependent on site conditions (surface roughness, size of aggregate etc.)

Ambient Air Temperature

-10 °C min. to +40 °C max.

Substrate Temperature

-10 °C min. to +40 °C max.

APPLICATION INSTRUCTIONS

APPLICATION METHOD / TOOLS

Selection of tape size

Selection of the correct tape size (thickness and width) and of a suitable Sikadur® adhesive depends on the required performance.

General Installation Procedure

- Concrete or other substrate is prepared either side of the joint / crack by mechanical means, i.e. blast cleaning, grinding etc., followed by vacuuming to remove residual dust etc.
- Sikadur Combiflex® SG tape connections and overlaps must be welded.

- The mixed 2-part Sikadur® adhesive is applied on the sides of the joint / crack by brush, trowel or spatula.
- Sikadur Combiflex® SG tape is then firmly pressed into the adhesive using a roller.
- Sikadur® adhesive is then applied on top of the Sikadur Combiflex® SG tape.
- For the Sikadur Combiflex® SG M type tape, the red middle strip is removed while the adhesive is still wet.

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

FURTHER INFORMATION

- Sikadur Combiflex® SG System Data Sheet
- Sika Method Statement: Sikadur Combiflex® SG System

IMPORTANT CONSIDERATIONS

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.
- If joints are to be subjected to positive water pressure, the tape must be supported in the joint by hard foam or joint sealant.
- If the tape is exposed to negative water pressure it must be supported with a steel plate fixed on one side.
- Sikadur Combiflex® SG Tape must be protected from mechanical damage.
- Sikadur Combiflex® SG Tape cannot be connected to the Sikaplan WT, Sikaplan WP or Hypalon based (e.g. old Sikadur-Combiflex) membranes by hot air welding.

BASIS OF PRODUCT DATA

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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

Sikadur® Adhesives

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

Sikadur Combiflex® SG Tape

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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