

PRODUCT DATA SHEET

Sikadur Combiflex® SG-20 M

High performance expansion joint and crack sealing tape



DESCRIPTION

Sikadur-Combiflex® SG-20 M is a flexible waterproofing tape based on modified flexible Polyolefin (FPO) with advanced adhesion properties. It has a red middle strip on one side for easier application over expansion joints. 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

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
- 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
- Sanitary Compliance XP P 41-250, Sikadur Combiflex® SG, CARSO, Certificate No. 16 MAT LY 108
- Tensile Strength and Elongation ISO 527-3:1993, Sikadur Combiflex® SG System, Material Lab, Test report No. 240405 SN1/1
- Water Regulations up to 50 °C BS6920-1:2000, Sikadur Combiflex® SG, WRAS, Approval No. 1708503
- Root Resistance CEN/TS 14416, Sikadur Combiflex® SG, SKZ, Test report No. 89643/09
- 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	
Appearance / Colour	Flexible light grey membrane	
Effective thickness	2,0 (-5 % / +10 %)	(EN 1849-2)
Mass per unit area	2095 g/m ² (-5 % / +10 %)	(EN 1849-2)

Width	15, 20, 25, 30 cm
Length	25 m roll
Shelf life	12 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)
Resistance to static loading	≥ 15 kg	(EN 1273)
Tensile strength	≥ 16 N/mm ²	(EN 12311-2)
Elongation	≥ 750 % Maximum permissible permanent elongation <25 % of non-adhered tape width.	(EN 12311-2)
Note: For higher joint movement, loop tape into the gap of the joint.		
Resistance to tear	MD / CMD ≥ 570 N	(EN12310-1)
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 (70°C, 12 weeks)	(EN 1296)
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. / +40 °C max.	

SYSTEMS

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

APPLICATION INSTRUCTIONS

instructions which must always be adjusted to the actual site conditions.

APPLICATION METHOD / TOOLS

Strictly follow installation procedures as defined in method statements, application manuals and working

FURTHER INFORMATION

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

IMPORTANT CONSIDERATIONS

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

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 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 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).

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® SG-20 M
August 2020, Version 02.01
020703150200000008

Sikadur-CombiflexSG-20M-en-GR-(08-2020)-2-1.pdf