

PRODUCT DATA SHEET

Sikadur-Combiflex® SG-20 P

HIGH PERFORMANCE MOVEMENT 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

CHARACTERISTICS / ADVANTAGES

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

APPROVALS / STANDARDS

- Root Resistance CEN/TS 14416, Sikadur Combiflex® SG, SKZ, Test report No. 89643/09
- Water Regulations up to +50 °C BS6920-1:2000, Sikadur Combiflex® SG, WRAS, Approval No. 1708503
- CE Marking and Declaration of Performance to EN 13967 - Flexible sheets for waterproofing – Damp proofing and basement tanking
- Artificial Weathering Sikadur-Combiflex® SG, Report No.MT Nr. 09/0177

PRODUCT INFORMATION

Chemical Base	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 packaging in dry conditions at temperatures between +5 °C and +30 °C. Opened and unprotected rolls must be used within 2 months. Always refer to packaging.
Appearance / Colour	Flexible light grey membrane

Length	25 m roll	
Width	15, 20, 25, 30, 40, 50, 100, 200 cm	
Effective Thickness	2.0 mm (-5 % / +10 %)	(EN 1849-2)
Mass per Unit Area	2,095 g/m ² (-5 % / +10 %)	(EN 1849-2)

SYSTEM INFORMATION

System Structure	The following system products must be selected from the following depending on design:	
	Tape	
	▪ Sikadur-Combiflex® SG-10 / -20 type P or M	
	Adhesive	
	▪ Sikadur-Combiflex® CF Adhesive Normal or Rapid	
	▪ Sikadur®-31 CF or DW	

TECHNICAL INFORMATION

Shore D Hardness	~ 35	(DIN 53505)
Resistance to Impact	≥ 1,500 mm (Method B)	(EN 12691)
Resistance to Static Load	≥ 15 kg (Method C)	(EN 12730)
Resistance to Root Penetration	Pass	(CEN/TS 14416)
Tensile Strength	≥ 16 N/mm ² (Method A)	(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.	
Resistance to tear (nail shank)	MD / CMD ≥ 570 N	(EN12310-1)
Joint Shear Resistance	≥ 500 N/50 mm	(EN 12317-2)
Service Temperature	-10 °C min. to +40 °C max	
Water Tightness	Pass (Method B, 24 hours / 60 kPa)	(EN 1928)
Chemical Resistance	Tested according to EN 1847. Contact Sika Technical Services for additional information.	
Durability of Water Tightness against Chemicals	Pass (Ca(OH) ₂ , 28 days / +23 °C)	(EN 1847)
	Pass (Method B, 24 hours / 60 kPa)	(EN 1928)
Durability of Water Thightness against Ageing	Pass (12 weeks)	(EN 1296)
	Pass (Method B, 24 hours / 60 kPa)	(EN 1928)
Reaction to Fire	Class E	(EN ISO 11925-2)

APPLICATION INFORMATION

Ambient Air Temperature	Refer to the System Data Sheet: Sikadur Combiflex® SG System
Substrate Temperature	Refer to the System Data Sheet: Sikadur Combiflex® SG System

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.

FURTHER DOCUMENTS

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

LIMITATIONS

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

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)

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.

Reference must be made to the Sika Method Statement: Sikadur-Combiflex® SG System.

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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