

PRODUCT DATA SHEET

Sikadur-Combiflex® SG-20 P

2 mm-thick, high-performance joint and crack sealing tape

PRODUCT DESCRIPTION

Sikadur-Combiflex® SG-20 P is a 2 mm thick, flexible, waterproofing tape with advanced adhesion properties. It is based on modified flexible polyolefin (FPO). Sikadur-Combiflex® SG-20 P is part of the Sikadur-Combiflex® SG System.

WHERE TO USE

Sikadur-Combiflex® SG-20 P is used for sealing:

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

Sikadur-Combiflex® SG-20 P is used for the following areas:

- Tunnels
- Culverts
- Hydroelectric power plants
- Sewage treatment plants
- Basements
- Below ground structures
- Water-retaining structures
- Drinking water reservoirs

CHARACTERISTICS / ADVANTAGES

- Advanced adhesion, no activation on site required
- Very good crack-bridging ability
- Good resistance to specific chemicals
- Good resistance to root penetration
- Wide service temperature range
- Does not contain plasticisers
- Hot-air weldable
- Approved for contact with drinking water

APPROVALS / CERTIFICATES

- Artificial Weathering DIN EN ISO 4892-2 / 4892-3 – Sikadur-Combiflex® SG, Report No.MT Nr. 09/0177
- Drinking water AS/NZS 4020 – Sikadur Combiflex® SG, ams Laboratories, Test report No. 1116525
- NSF-ANSI 61 Approved for contact with Potable Water – Sikadur Combiflex® SG Jointing System used with Sikadur®-31 Hi-Mod Gel adhesive) - UL Certificate: FDNP7.MH17464 - Drinking Water System Components Certified for Canada

Note: the NSF-61 approved adhesive Sikadur®-31 Hi-Mod Gel is **only available on special order**.

PRODUCT INFORMATION

Composition / Manufacturing	Modified flexible polyolefin (FPO)	
Packaging	25 m roll Refer to the current price list for available packaging variations.	
Colour	Light grey	
Shelf Life	3 years from date of production	
Storage Conditions	Store in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Opened rolls must be used within two (2) months. Always refer to the information on the packaging.	
Length	25 m	
Width	200 mm, 1000 mm	
Thickness	2.00 mm (-0.10 mm / +0.20 mm)	
Mass per Unit Area	2.10 kg/m ² (-0.10 kg/m ² / +0.21 kg/m ²) (EN 1849-2)	
Colour	Top layer surface texture	Smooth
	Bottom layer surface texture	Smooth

TECHNICAL INFORMATION

Shore D Hardness	35	(DIN 53505)
Resistance to Impact	Method B, Soft support	≥ 1500 mm (EN 12691)
Resistance to Static Load	Hard support	≥ 15 kg (EN 12730)
Resistance to Root Penetration	Pass	(CEN/TS 14416)
Tensile Strength	Longitudinal (MD)	≥ 16 N/mm ² (EN 12311-2)
	Transversal (CMD)	≥ 16 N/mm ²
Resistance to Tear	Longitudinal (MD)	≥ 570 N (EN 12310-1)
	Transversal (CMD)	≥ 570 N
Joint Shear Resistance	≥ 500 N/50 mm	(EN 12317-2)
Reaction to Fire	Class E	(EN 13501-1)
Chemical Resistance	Long term: Water, lime water, cement water, seawater, salt solutions, domestic sewage, bitumen (according to EN 1548), bitumen emulsion coatings (staining possible), etc. Temporary: Light fuel oil, diesel, diluted alkali and mineral acids, ethanol, methanol, petrol, etc. Tested according to EN 1847. Contact Sika Technical Services for additional information.	

Watertightness	Method B: 24 h at 2 kPa	Pass	(EN 1928)
Durability of Watertightness against Ageing	Aged 12 weeks at +70 °C, tested 24 h at 60 kPa	Pass	(EN 1928; EN 1296)
Durability of Watertightness against Chemicals	Calcium hydroxide, aged 28 days at +23 °C, tested 24 h at 60 kPa	Pass	(EN 1928; EN 1847)
Service Temperature	Maximum	+40 °C	
	Minimum	-30 °C	
Elongation at maximum tensile force	> 750 % Maximum permissible permanent elongation: < 25 % of non-adhered tape width, (for higher joint movement loop the tape into the joint)		

APPLICATION INFORMATION

Ambient Air Temperature	Maximum	+40 °C
	Minimum	+5 °C
Substrate Temperature	Maximum	+30 °C
	Minimum	+5 °C
Refer to the Product Data Sheet of the appropriate Sikadur® epoxy adhesives		

SYSTEMS

System Structure	Tape	Sikadur-Combiflex® SG-20 P
	Adhesive	Sikadur®-30
		or
		Sikadur®-31 Hi-Mod Gel
		or
		Sikadur®-31 Hi-Mod Gel (Special order, NSF-61 approved for Drinking Water)

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

FURTHER INFORMATION

- Sikadur-Combiflex® SG System - System Data Sheet
- Sikadur-Combiflex® SG System - Method statement

ENVIRONMENT, HEALTH & SAFETY

This product is a manufactured article that does not require Safety Data Sheets to be marketed, transported or applied at the jobsite, according to the Hazardous Product Act - Section 2. Based on our current

knowledge, this product is not classified as dangerous and does not contain any hazardous materials. Always wear personal protective equipment (including safety goggles and gloves) to manipulate and install Sika® products.

APPLICATION INSTRUCTIONS

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.

Reference must be made to the following document:
Sikadur-Combiflex® SG System - Method statement

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 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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