

# Sikadur-Combiflex® SG Tape

Prefabricated waterproofing tapes

Part of the Sikadur-Combiflex® SG System

<b>Product Description</b>	The Sikadur-Combiflex® SG are flexible prefabricated waterproofing tapes based on modified flexible Polyolefin (FPO) with advanced adhesion. They are part of the Sikadur-Combiflex® SG System.
<b>Uses</b>	Waterproofing tape for the Sikadur-Combiflex® SG System
<b>Characteristics/ Advantages</b>	<ul style="list-style-type: none"><li>■ Easy to use with excellent workability and thixotropic consistency</li><li>■ Advanced adhesion, no activation on site required</li><li>■ Extremely flexible</li><li>■ Weathering and water resistant</li><li>■ Root penetration resistant</li><li>■ Good resistance to many different chemicals</li><li>■ UV-resistant</li><li>■ Performs well within a wide range of temperatures</li><li>■ Plasticiser-free</li><li>■ Hot air weldable</li><li>■ Can be used in contact with potable/drinking water</li></ul>
<b>Tests</b>	
<b>Approval/Standards</b>	Hygiene Institute: Test report No. K-178989-09 drinking water suitability according to KTW-Guideline of the Federal Environment Agency (UBA), July 2009.  AS/N2S 4020:2005 certified for use in contact with potable water.  Assessment for resistance to root penetration according to CEN/TS 14416.
<b>Product Data</b>	
<b>Appearance/Colours</b>	Sikadur-Combiflex® SG-20 Tape: Flexible light grey membrane
<b>Packaging</b>	Sikadur-Combiflex® SG-20: Thickness: 2mm Width: 15, 20, 25, 30, 40, 50, 100, 200cm Rolls of 25m
<b>Storage</b>	
<b>Storage Conditions/ Shelf Life</b>	<i>Sikadur-Combiflex® SG-20 tape</i> 36 months from date of production if stored properly in undamaged unopened original sealed packaging under cool and dry conditions. Opened and unprotected rolls must be used within 2 month.
<b>Technical Data</b>	
<b>Chemical Base</b>	Modified flexible Polyolefin (FPO) with advanced adhesion
<b>Fire Rating</b>	Euroclass E (EN ISO 11925-2, classification to EN 13501-1)
<b>Service Temperature</b>	-30°C min. to +40°C max. in wet conditions -30°C min. to +60°C max. in dry conditions

Construction



## Mechanical/Physical Data

Tensile Strength	> 12 N/mm <sup>2</sup>	(EN 12311-2)
Tear Strength	> 40 N/mm	(ISO 34-B)
Elongation at Break	> 600 %	(EN 12311-2)
Seam strength	> 300 N/5cm (2 mm) > 400 N/5cm (2 mm)	(EN 12316-2) (EN 12317-2)
Behaviour under hydrostatic pressure	6bar/72h No leakage	(EN 1928-B)

## Resistance

Chemical Resistance	Please consult the Sikadur-Combiflex® SG system product data sheet.	
Thermal Resistance	Thermal ageing: Passed	(SIA V280, 1996)
	Bonding test: No cracks at -40°C	(EN 495-5)
	Artificial weathering: 7500 h passed (test on-going)	(SIA V280, 1996)

## System Information

System Structure	Please consult the Sikadur-Combiflex® SG System product data sheet.
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## Application Details

Consumption	Please consult the Sikadur-Combiflex® SG System product data sheet.
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## Application Instructions

Application Method/ Tools	<p>Selection of tape size: Selection of the correct tape size (thickness and width) and of a suitable Sika® adhesive depends on the expected performance. If necessary, ask for technical advice.</p> <p>Max. permissible permanent elongation: 2 mm tape: 25% of the non adhered tape width</p> <p>Note: For higher movement, place and fix tape in a loop into the joint.</p> <p>Application of tape: Please consult the Sikadur-Combiflex® SG System product data sheet.</p>
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### Connection of Sika®-Combiflex® SG Tape :

Tape ends are connected by hot air thermal welding. The welding area must be prepared by roughening the surface with scotch brite pads or sand paper. Roughen the tapes only in the welding area otherwise their adhesive bond is affected.

Overlaps have to be 40 - 50 mm.

Welding parameters, such as speed and temperature shall be established with trials on site, prior to any welding works.

Basic settings: 360-420°C

Hand welding in the overlap area is carried out in three steps.

1. Spot weld the overlap
2. Pre-weld: weld the rear overlap area so that a 20 mm flap (using a 20 mm nozzle) remains for the final welding
3. Final weld: weld the remaining flap. Guide the roller at a distance of 20 mm parallel to the air outlet of the welding nozzle. Roll the pressure roller fully across the seam.

Note: Application of solvent will render the Combiflex Tape unusable.

Let the first layer of the Sikadur-31 begin to harden before the top layer is applied. Apply the top layer of adhesive at a thickness of ~ 1 mm on both sides of the joint / crack, producing a fully covering layer which tapers outwards to almost zero.



Note: tape not included. Shown for illustration purposes

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#### Notes on Application/ Limitations

Please consult the Sikadur-Combiflex® SG System product data sheet and the method statement.

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#### Health and Safety Information

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

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#### Health and Safety Information

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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