



Sikadur- Combiflex® SG

High Performance Crack,
Construction and Expansion
Joint Waterproofing System



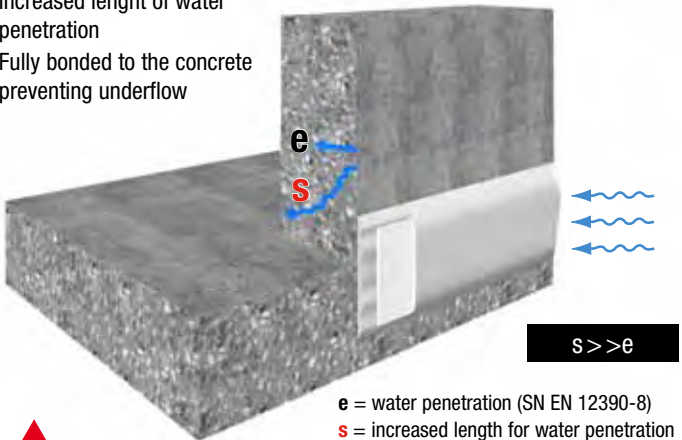
Sikadur-Combiflex® SG System



High performance joint sealing system for construction, expansion and connection joints as well as for cracks. The system allows irregular and high movement in more than one direction, whilst maintaining a high quality seal.

Function of the System

- Blocking the path of water penetration
- Increased length of water penetration
- Fully bonded to the concrete preventing underflow



e = water penetration (SN EN 12390-8)
s = increased length for water penetration



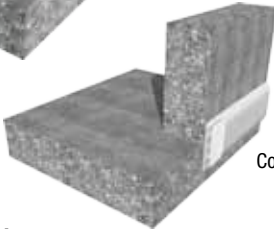
Where to use it



Expansion Joints



Crack Sealing



Construction Joints

Typical Applications



Basement Waterproofing



Balconies & Roofs



Swimming Pools



Facade Joints



Drinking Water Reservoirs



Refurbishment



Pipe Penetrations



Ground Water Protection

Characteristics/Advantages

- Advanced adhesion, no activation on site required
- Easy to install
- Suitable for both, dry and damp concrete surfaces
- Extremely flexible
- Performs well within a wide range of temperatures
- Excellent adhesion to many materials
- Weather and water resistant
- Available with normal and rapid hardening grades of adhesive
- Good resistance to many chemicals
- Root resistant
- Versatile system suitable for many difficult details

Sikadur-Combiflex® SG System

System Design

The **Sikadur-Combiflex® SG** system consists of a modified flexible Polyolefin (FPO) waterproofing tape with advanced adhesion and a various range of suitable **Sikadur®** adhesive.

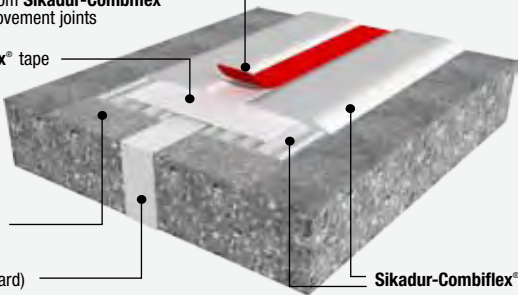


Red middle strip from **Sikadur-Combiflex®** tape **type M** for movement joints

Sikadur-Combiflex® tape

Prepared Concrete

Joint filler (filler board)



Sikadur-Combiflex® adhesive

Sikadur-Combiflex® SG Tape

Waterproofing tape based on modified Polyolefin



The tape is available in 2 versions



Sikadur-Combiflex® SG P-Types



Sikadur-Combiflex® SG M-Types
(with red middle strip for easier application of expansion joints)



Sikadur-Combiflex® SG P-Types

	Sikadur-Combiflex® SG-10 P	Sikadur-Combiflex® SG-20 P
Tape thickness [mm]	1.0	2.0
Tape widths [mm]	100, 150, 200, 250, 300 400, 500, 1000, 2000	150, 200, 250, 300 400, 500, 1000, 2000
Tape length [m]	25	25

Sikadur-Combiflex® SG M-Types

	Sikadur-Combiflex® SG-10 M	Sikadur-Combiflex® SG-20 M
Tape thickness [mm]	1.0	2.0
Tape widths [mm]	100, 150, 200, 250, 300	150, 200, 250, 300
Tape length [m]	25	25

Sikadur-Combiflex® Adhesives

Sikadur-Combiflex® adhesives are solvent-free, thixotropic two part adhesives based on epoxy resins and fillers.

Basically 3 suitable Adhesives:

- **Sikadur-Combiflex® CF**
Adhesives (Type N, and R)
- **Sikadur®-31 CF**
(Type N, R and Slow)
- **Sikadur®-31 DW**



CF: Corporate Formulation

N: Normal hardening; for ambient and substrate temperature from +10 °C to +30 °C

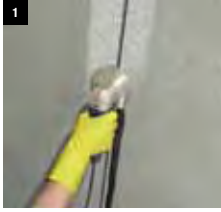
R: Rapid hardening, for ambient and substrate temperature from +5 °C to +30 °C

S: Slow hardening, for ambient and substrate temperature from +25 °C to +45 °C

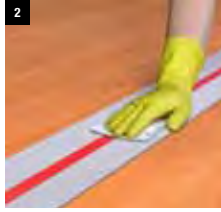
DW: For contact with drinking water; for ambient and substrate temperature from +10 °C to +30 °C

Sikadur-Combiflex® SG System

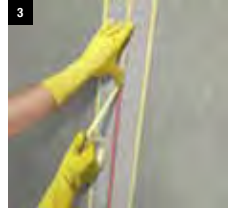
Application



1 Prepare the substrate by mechanical means, i.e. blast cleaning, grinding etc., followed by vacuuming to remove residual dust etc.



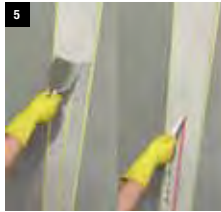
2 If there is dirt on the tapes, clean the surfaces with a dry or damp cloth. Use water and not solvent for cleaning if required.



3 Use masking tapes to cover the joint centre and to produce neat edge details at the sides.



4 Mix the **Sikadur-Combiflex® CF** adhesive components A and B together for a minimum of 3 minutes, until the mix is homogeneous and of uniform colour.



5 Apply the **Sikadur-Combiflex® CF** adhesive on the sides of the joint by brush, trowel or spatula. Then remove the central piece of masking tape whilst the adhesive is still 'wet'.



6 Press the **Sikadur-Combiflex® SG** tapes firmly into the adhesive without entrapping air, using a suitable roller. The adhesive should be squeezed out on both sides by ~5 mm.



7 Apply the second layer of **Sikadur-Combiflex® CF** adhesive on top of the tape.



8 Remove the red middle stripe and the masking tapes on both sides of the joint, whilst the adhesive is still 'wet', to ensure a neat and precise detail.



9 Tape-to-tape end connections are made by hot welding area. Welding temperature: 380–400°C **Prepare the weld areas by abrasion to roughen the surface, with scotch-brite pads or sandpaper.** Welding overlaps minimum 40–50 mm.

Substrate surface preparation is one of the most important criteria for good adhesion with resin systems such as the Sikadur® epoxy adhesives, which have excellent adhesion on many different substrates correctly prepared.



Adhesives Consumption



Adhesives Consumption

Strip width	Strip thickness	Consumption*
10 cm	1 mm	~0.7 kg/m
15 cm	1 mm	~1.0 kg/m
20 cm	1 mm	~1.2 kg/m
10 cm	2 mm	~0.8 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 differ depending on job-site conditions (surface roughness, size of aggregates etc.)

Packaging Kit

Box Containing

- 6 kg **Sikadur-Combiflex® CF**
Adhesives Type N
- 6 m **Sikadur-Combiflex® SG-10 M 150**
- 1 kg **Sika® Colma-Cleaner**

For more Information refer to the Technical data sheets and the Method Statement Sikadur-Combiflex®



Know-how from Site to Shelf



Sika – Specialised Trade Partner

All orders are accepted subject to our current terms of sale and delivery.
Users should always refer to the most recent issue of the Product Data Sheet for the product concerned.



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