

## PRODUCT DATA SHEET

# Sikadur-Combiflex® CF Adhesive Normal

2-part epoxy adhesive for the Sikadur-Combiflex® SG System

### PRODUCT DESCRIPTION

Sikadur-Combiflex® CF Adhesive Normal is a 2-part epoxy based thixotropic adhesive for bonding the Sikadur-Combiflex® SG modified flexible Polyolefin (FPO) waterproofing tapes to different substrates. Internal and external use. Application temperature range +10 °C to +30 °C. It is part of the Sikadur-Combiflex® SG System.

### USES

- Adhesive for the Sikadur-Combiflex® SG System

### CHARACTERISTICS / ADVANTAGES

- Easy to mix and apply
- Excellent adhesion to many materials
- Performs well within a wide temperature range

### PRODUCT INFORMATION

<b>Chemical Base</b>	Epoxy resin and selected fillers	
<b>Packaging</b>	6 kg (A+B) pre-batched unit	Pallets of 432 kg (72 × 6 kg)
	15 kg bulk container	Part A, pallets of 390 kg (39 × 10 kg)
	10 kg Part A + 5 kg Part B	Part B, pallets of 500 kg (100 × 5 kg)
	30 kg bulk container	Part A, pallets of 780 kg (39 × 20 kg)
	20 kg Part A + 10 kg Part B	Part B, pallets of 390 kg (39 × 10 kg)
	Refer to current price list for packaging variations.	
<b>Colour</b>	Resin-Part A	White
	Hardener-Part B	Dark grey
	Part A+B mixed	Light grey
<b>Shelf Life</b>	24 months from date of production	
<b>Storage Conditions</b>	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C.	

- Good resistance to many chemicals
- No primer needed
- High mechanical resistance

### ENVIRONMENTAL INFORMATION

- Conformity with LEED v4 MRc 2 (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations
- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization - Material Ingredients
- IBU Environmental Product Declaration (EPD)

### APPROVALS / STANDARDS

- Conforms to the requirements of EN 1504-4 - Structural bonding
- Methane gas transmission rate, ISO 15105-1, Versaperm, Report No. LR2282

Always refer to packaging.

<b>Density</b>	Part A	~1,7 kg/l
	Part B	~1,7 kg/l
	Mixed resin	~1,7 kg/l

All Density values at +23 °C.

**Product Declaration** EN 1504-4 - Structural bonding

## TECHNICAL INFORMATION

<b>Compressive Strength</b>	<b>Curing time</b>	<b>Curing temperature</b>			(ASTM D 695-96)
		<b>+10 °C</b>	<b>+23 °C</b>	<b>+30 °C</b>	
	3 days	~35 N/mm <sup>2</sup>	~48 N/mm <sup>2</sup>	~52 N/mm <sup>2</sup>	
	7 days	~41 N/mm <sup>2</sup>	~50 N/mm <sup>2</sup>	~54 N/mm <sup>2</sup>	
14 days	~43 N/mm <sup>2</sup>	~54 N/mm <sup>2</sup>	~55 N/mm <sup>2</sup>		

<b>Modulus of Elasticity in Compression</b>	at +5 °C	~4200 N/mm <sup>2</sup>	(ASTM D 695)
	at +23 °C	~3500 N/mm <sup>2</sup>	

<b>Tensile adhesion strength</b>	<b>Substrate</b>	<b>Adhesion strength</b>	(EN 1542)
	Concrete dry	> 4 N/mm <sup>2</sup> *	
	Concrete (mat damp)	> 4 N/mm <sup>2</sup> *	
	Steel (blast cleaned)	> 10 N/mm <sup>2</sup>	
	*failure in concrete		

<b>Coefficient of Thermal Expansion</b>	5,3 × 10 <sup>-5</sup> (± 0,2 × 10 <sup>-5</sup> ) 1/K (linear expansion between -20 °C and +40 °C)	(EN ISO 1770)
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**Chemical Resistance** Refer to Sikadur-Combiflex® SG System system data sheet or contact Sika Technical Services for specific information.

**Service Temperature** -30 °C min. / +38 °C max.

## SYSTEM INFORMATION

**System Structure** Refer to Sikadur-Combiflex® SG System data sheet or contact Sika Technical Services for specific information.

## APPLICATION INFORMATION

**Mixing Ratio** Part A:B = 2:1 parts by weight or volume

**Consumption** Refer to Sikadur-Combiflex® SG System data sheet. Depends on type of tape or strip.

**Product Temperature** +10 °C min. / +30 °C max.

**Ambient Air Temperature** +10 °C min. / +30 °C max.

**Dew Point** Beware of condensation.  
Steel substrate temperature during application must be at least +3 °C above dew point.

**Substrate Temperature** +10 °C min. / +30 °C max.

**Substrate Moisture Content** Cementitious substrates:  
Substrate must be dry or matt damp (no standing water).  
Brush the adhesive well into the substrate if matt damp.

Temperature	Pot life	Open time
+10 °C	~125 minutes	–
+23 °C	~50 minutes	~70 minutes
+30 °C	~25 minutes	–

If larger quantities are being mixed the temperature of Sikadur-Combiflex® CF Adhesive Normal will increase due to the chemical reaction, resulting in a reduced pot life.

### Waiting Time / Overcoating

Sikadur-Combiflex® CF Adhesive Normal may be overcoated with an epoxy coating. If this is required, do not smooth the adhesive with detergent. If waiting time between application of adhesive and overcoating is to be longer than 2 days, the adhesive must be blinded to excess with quartz sand immediately after application.

## VALUE BASE

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.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

#### Concrete/masonry/mortar/stone

Note: Concrete and mortar must be at least 3–6 weeks old.

Substrate surfaces must be sound, clean, dry or matt damp. Free from standing water, ice, dirt, oil, grease, coatings, laitance, efflorescence, old surface treatments, all loose particles and any other surface contaminants that could affect adhesion of the adhesive.

#### Steel

Surfaces must be clean, dry, free from oil, grease, coatings, rust, scale, all loose particles and any other surface contaminants that could affect adhesion of the adhesive.

### SUBSTRATE PREPARATION

#### Concrete/masonry/mortar/stone

Substrates must be prepared mechanically using suitable abrasive blast cleaning, needle gunning, light scabbling, bush hammering, grinding or other suitable equipment to achieve an open textured gripping surface profile.

#### Steel

Surfaces must be prepared mechanically using suitable abrasive blast cleaning, grinding, rotating wire brush or other suitable equipment to achieve a bright metal finish with a surface profile similar to aluminium oxide paper medium grade. Avoid dew point conditions before and during application.

### All substrates

All dust and loose material must be completely removed from all substrate surfaces before application of the product by vacuum / dust removal equipment.

### MIXING

#### IMPORTANT

Avoid over mixing to minimise air entrainment.

Note: Use a spiral paddle in an electric single or double paddle mixer (Bulk container) at a maximum speed of 300 rpm.

#### Pre-batched unit

1. Mix Part A (resin) for ~60 seconds.
2. Add Part B (hardener) to Part A (resin).
3. Mix Parts A+B continuously for ~3 minutes until a uniformly smooth, coloured mix is achieved.
4. To ensure thorough mixing, pour materials into another clean container and mix again to achieve a smooth and uniform mix.

#### Bulk container

Note: For large volume mixing a suitable pan mixer can be used.

Note: Mix only the quantity which can be used within its pot life.

Add both parts in the correct proportion into a suitable clean, dry container and mix in the same way as for the pre-batched unit.

### APPLICATION METHOD / TOOLS

Refer to Sikadur-Combiflex® SG System data sheet.

### CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Colma-Cleaner immediately after use. Hardened or cured material can only be removed mechanically.

## 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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