

PRODUCT DATA SHEET

Sikadur-Combiflex® CF Adhesive Rapid

2- PART RAPID EPOXY ADHESIVE FOR THE SIKADUR-COMBIFLEX® SG SYSTEM

PRODUCT DESCRIPTION

Sikadur-Combiflex® CF Adhesive Rapid is a 2-part rapid 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 +5 °C to +15 °C. It is part of the Sikadur-Combiflex® SG System.

USES

- Adhesive for the Sikadur®-Combiflex® System

CHARACTERISTICS / ADVANTAGES

- Easy to mix and apply
- Excellent adhesion to many materials
- Performs well within a wide temperature range
- Good chemical resistance
- No primer needed
- High mechanical properties

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 1504-4 - Structural bonding

PRODUCT INFORMATION

Chemical Base	Epoxy resin and selected fillers	
Packaging	Part A	4 kg containers
	Part B	2 kg containers
	Pallets of 540 kg: (90 × 4 kg Part A) + (90 × 2 kg Part B) Refer to current price list for packaging variations.	
Colour	Resin-Part A	White
	Hardener-Part B	Dark grey
	Part A+B mixed	Light grey
Shelf Life	24 months from date of production	
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.	
Density	Part A	~1,5 kg/l
	Part B	~1,6 kg/l
	Mixed resin	~1,5 kg/l
	All Density values at +23 °C.	
Product Declaration	EN 1504-4: Structural bonding	

TECHNICAL INFORMATION

Compressive Strength	Curing time	Curing temperature			(ASTM D 695-96)
		+5 °C	+10 °C	+15 °C	
	3 days	~26 N/mm ²	~34 N/mm ²	~45 N/mm ²	
	7 days	~39 N/mm ²	~43 N/mm ²	~53 N/mm ²	
14 days	~41 N/mm ²	~50 N/mm ²	~55 N/mm ²		
Modulus of Elasticity in Compression	~4`200 N/mm ² (+5 °C) ~5`400 N/mm ² (+23 °C)			(ASTM D 695) (EN 13412)	
Tensile Adhesion Strength	Substrate	Adhesion strength		(EN 1542)	
	Concrete dry	> 4 N/mm ² *			
	Concrete (matt moist / damp)	> 4 N/mm ² *			
	Steel (blast cleaned)	> 10 N/mm ²			
	*failure in concrete				
Coefficient of Thermal Expansion	~4,5 × 10 ⁻⁵ (±0,2 × 10 ⁻⁵) 1/K (linear expansion between -20 °C and +40 °C)			(EN ISO 1770)	
Chemical Resistance	Refer to the Sikadur Combiflex® SG System data sheet or contact Sika Technical Services for specific information.				
Service Temperature	-30 °C min. / +43 °C max.				

SYSTEM INFORMATION

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

Mixing Ratio	Part A : B = 2 : 1 parts by weight or volume			
Consumption	Refer to the Sikadur-Combiflex® SG System product data sheet. Depends on type of tape or strip.			
Product Temperature	+5 °C min. / +15 °C max.			
Ambient Air Temperature	+5 °C min. / +15 °C max.			
Dew Point	Beware of condensation. Steel substrate temperature during application must be at least 3 °C above dew point.			
Substrate Temperature	+5 °C min. / +15 °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.			
Pot Life	Temperature	Potlife*	Open time	(EN ISO 9514)
	+5 °C	~65 minutes	~75 minutes	
	+10 °C	~45 minutes	~65 minutes	
	+15 °C	~25 minutes	~45 minutes	
	If larger quantities are being mixed the temperature of the Sikadur-Combiflex® CF Adhesive Rapid will increase due to the chemical reaction, resulting in a reduced potlife.			
Waiting Time / Overcoating	Sikadur-Combiflex® CF Adhesive Rapid may be overcoated with an epoxy coating. If this is required, do not smooth the adhesive with a 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.			

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Concrete/masonry/mortar/stone

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

Pre-batched units

Prior to mixing all parts, mix part A (resin) briefly using a mixing spindle attached to a slow speed electric drill (max. 300 rpm). Add part B (hardener) to part A and mix Part A+B continuously for at least 3 minutes until a uniformly coloured smooth consistency mix has been achieved. To ensure thorough mixing pour materials into a clean container and mix again for approximately 1 minute. Over mixing must be avoided to minimise air entrainment. Mix full units only. Mixing time for A+B = 4,0 minutes. Mix only the quantity which can be used within its pot life.

Bulk packaging (not pre-batched)

Mix each Part separately before mixing together. Add the Parts in the correct proportions into a suitable mixing pail and stir correctly using an electric low speed mixer as above for pre-batched units. For large volume mixing a suitable pan mixer can be used.

APPLICATION METHOD / TOOLS

Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions.

Refer to the relevant section in the Sika Method Statement: Sikadur Combiflex® SG System.

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.

FURTHER DOCUMENTS

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

LIMITATIONS

- Refer to the Sikadur Combiflex® SG System Data Sheet

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.

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.

ECOLOGY, HEALTH AND SAFETY

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

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.

SIKA LIMITED

Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited

SIKA IRELAND LIMITED

Ballymun Industrial Estate
Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @Sikalreland



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