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PRODUCT DATA SHEET Sikadur-Combiflex[®] CF Adhesive Normal

2-PART EPOXY ADHESIVE FOR THE SIKADUR COMBIFLEX® SYSTEM

PRODUCT DESCRIPTION

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

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

APPROVALS / STANDARDS

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

Resin-Part A Hardener-Part B Part A+B mixed	4 kg containers 2 kg containers g Part A) + (90 × 2 kg Part B) White Dark grey Light grey		
Pallets of 540 kg: (90 × 4 kg Resin-Part A Hardener-Part B Part A+B mixed	g Part A) + (90 × 2 kg Part B) White Dark grey		
Resin-Part A Hardener-Part B Part A+B mixed	White Dark grey		
Hardener-Part B Part A+B mixed	Dark grey		
Part A+B mixed			
	Light grey		
24 months from date of production			
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.			
Part A	~1,5 kg/l		
Part B	~1,5 kg/l		
Mixed resin	~1,5 kg/l		
All Density values at +23 °C.			
EN 1504-4 - Structural bon	ding		
-	packaging in dry condition ways refer to packaging. Part A Part B Mixed resin All Density values at +23 °C		

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PRODUCT INFORMATION

Compressive Strength	Curing time	Curing time Curing temperature			(ASTM D 695-96)
		+10 °C	+23 °C	+30 °C	
	3 days	~35 N/mm ²	~48 N/mm ²	~52 N/mm ²	
	7 days	~41 N/mm ²	~50 N/mm ²	~54 N/mm ²	
	14 days	~43 N/mm ²	~54 N/mm ²	~55 N/mm ²	
Modulus of Elasticity in Compression	~ 4200 N/mm² (+5 °C)				(ASTM D 695)
	~ 3500 N/mm ² (+23 °C)				· · ·
Tensile Adhesion Strength	Substrate		Adhesion strength		(EN 1542)
	Concrete dry		> 4 N/mm ² *		
	Concrete (mat damp)		> 4 N/mm ² *		
	Steel (blast cleaned)		> 10 N/mm ²		
	*failure in concre	te			
Coefficient of Thermal Expansion	$5,3 \times 10^{-5}$ (±0.2 × 10 ⁻⁵) 1/K (linear expansion between -20 °C and +40 °C)			(EN ISO 1770)	
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 Technic-
	al Services for specific information.

APPLICATION INFORMA	TION					
Mixing Ratio	Part A : B = 2 : 1	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. / +3	+10 °C min. / +30 °C max.				
Ambient Air Temperature	+10 °C min. / +3	+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 adhes- ive well into the substrate if matt damp.					
Pot Life	Temperature	Potlife*	Open time	(EN ISO 9514)		
	+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 in- crease due to the chemical reaction, resulting in a reduced potlife.					
Waiting Time / Overcoating	coating. If this is waiting time be longer than 2 da	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.				

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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.

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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.

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.



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