

BUILDING TRUST

PRODUCT DATA SHEET

Sikadur®-31 CF Slow

DESCRIPTION

Sikadur®-31 CF Slow is a moisture tolerant, thixotropic, structural 2-component adhesive and repair mortar, based on epoxy resins and special fillers for use at higher temperatures between +25 °C and +45 °C.

USES

Sikadur®-31 CF Slow may only be used by experienced professionals.

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As a structural adhesive and mortar for:

- Concrete elements
- Hard natural stone
- Ceramics, fibre cement
- Mortar, Bricks, Masonry
- Steel, Iron, Aluminium
- Wood
- Polyester, Epoxy
- Glass

As a fast setting rapid repair adhesive and mortar:

- Corners and edges
- Holes and void filling
- For vertical and overhead use

Joint filling and crack sealing:

Joint arris repair and crack sealing

CHARACTERISTICS / ADVANTAGES

Sikadur®-31 CF Slow has the following advantages:

- Easy to mix and apply
- Very good adhesion to most construction materials
- High strength adhesive
- Thixotropic: non-sag in vertical and overhead applications
- Hardens without shrinkage
- Different coloured components (for mixing control)
- No primer needed
- High initial and ultimate mechanical strength
- Good abrasion resistance
- Impermeable to liquids and water vapour
- Good chemical resistance

APPROVALS / CERTIFICATES

 Adhesive for structural bonding tested according to EN 1504-4, provided with the CE-mark

PRODUCT INFORMATION

Composition	Epoxy resin		
Packaging	6 kg (A+B)	Pre-batched unit	
		pallets of 480 kg (80 x 6 kg)	
	1.2 kg (A+B)	Pre-batched unit	
		box of 6 x 1.2 kg	
Colour	Component A: grey		
	Component B: black		
	Components A+B mixed: concrete grey		

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Shelf life	24 months from date of production						
Storage conditions	Store in original, unopened, sealed and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight.						
Density	1.93 ± 0.1 kg/l (component A+B mixed) (at +23 °C) (evacuated)						
TECHNICAL INFORMATION							
Compressive strength	Curing time	Curing tempe	rature		(DIN EN 196)		
		+25 °C	+35 °C	+45 °C			
	1 day	~30 N/mm ²	~45 N/mm ²	~48 N/mm ²			
	3 days	~47 N/mm²	~49 N/mm²	~54 N/mm²			
	7 days	~52 N/mm²	~54 N/mm²	~57 N/mm²			
Modulus of elasticity in compression	~ 2,600 N/mr	m² (14 days at +	+23 °C)		(ASTM D 695)		
Tensile strength in flexure	Curing time	Curing temperature		(DIN EN 196)			
		+25 °C	+35 °C	+45 °C			
	1 day	~20 N/mm²	~20 N/mm ²	~20 N/mm²			
	3 days	~25 N/mm²	~25 N/mm²	~25 N/mm²			
	7 days	~27 N/mm²	~27 N/mm²	~28 N/mm²			
Tensile strength	Curing time	Curing tempe	rature		(DIN EN 196)		
G	earning annie	+25 °C	+35 °C	+45 °C	,		
	1 day	~6 N/mm²	~12 N/mm²	~13 N/mm²			
	3 days	~12 N/mm²	~13 N/mm²	~16 N/mm²			
	7 days	~13 N/mm²	~13 N/mm²	~17 N/mm²			
Modulus of elasticity in tension	~ 3,000 N/mr	m² (14 days at +	-23 °C)		(ISO 527)		
Tensile strain at break	0.6 ± 0.1 % (7	days at +35 °C	 :)		(ISO 527)		
Shrinkage	Hardens without shrinkage.						
Tensile adhesion strength	Curing time	Substrate	Curing tem- perature	Adhesion strength	(EN ISO 4624, EN 1542, EN 12188)		
	7 -1	C	.2F °C				
	/ days	Concrete ary	+35 C	> 4 N/Mm² "			
	7 days 7 days	Concrete dry Concrete	+35 °C +25 °C	> 4 N/mm ² * > 4 N/mm ² *			
		Concrete moist Concrete		> 4 N/mm ² * > 4 N/mm ² * > 4 N/mm ² *			
	7 days	Concrete moist Concrete moist	+25 °C +35 °C	> 4 N/mm ² * > 4 N/mm ² *			
	7 days 7 days 7 days	Concrete moist Concrete moist Steel	+25 °C +35 °C +25 °C	> 4 N/mm ² * > 4 N/mm ² * > 4 N/mm ² *			
	7 days 7 days 7 days 7 days 7 days	Concrete moist Concrete moist Steel Steel	+25 °C +35 °C +25 °C +35 °C	> 4 N/mm ² * > 4 N/mm ² * > 4 N/mm ² * ~15 N/mm ² ~14 N/mm ²			
	7 days 7 days 7 days 7 days 7 days 7 days	Concrete moist Concrete moist Steel Steel Steel	+25 °C +35 °C +25 °C	> 4 N/mm ² * > 4 N/mm ² * > 4 N/mm ² *			
Coefficient of thermal expansion	7 days 7 days 7 days 7 days 7 days 7 days *100% concrete fa	Concrete moist Concrete moist Steel Steel Steel	+25 °C +35 °C +25 °C +35 °C +50 °C	> 4 N/mm ² * > 4 N/mm ² * ~15 N/mm ² ~14 N/mm ² ~14 N/mm ²	(EN 1770)		
Coefficient of thermal expansion Heat deflection temperature	7 days 7 days 7 days 7 days 7 days 7 days *100% concrete fa	Concrete moist Concrete moist Steel Steel Steel ilure °C (Temp. rang	+25 °C +35 °C +25 °C +35 °C +50 °C	> 4 N/mm ² * > 4 N/mm ² * > 4 N/mm ² * ~15 N/mm ² ~14 N/mm ² ~14 N/mm ² 60 °C)			
·	7 days 100% concrete fa 7.9 x 10-5 per	Concrete moist Concrete moist Steel Steel Steel ilure °C (Temp. range	+25 °C +35 °C +25 °C +35 °C +50 °C ge +23 °C - +6	> 4 N/mm ² * > 4 N/mm ² * > 4 N/mm ² * ~15 N/mm ² ~14 N/mm ² ~14 N/mm ² 60 °C)			
·	7 days 7 days 7 days 7 days 7 days 8 *100% concrete fa 7.9 x 10-5 per Curing time	Concrete moist Concrete moist Steel Steel Steel ilure °C (Temp. rang	+25 °C +35 °C +25 °C +35 °C +50 °C ge +23 °C - +6	> 4 N/mm ² * > 4 N/mm ² * - 4 N/mm ² * - 15 N/mm ² - 14 N/mm ² - 14 N/mm ² - 100 °C) OT			
·	7 days 7 days 7 days 7 days 7 days 7 days *100% concrete fa 7.9 x 10-5 per Curing time 7 days (thickness 10 mm)	Concrete moist Concrete moist Steel Steel Steel ilure °C (Temp. rang	+25 °C +35 °C +25 °C +35 °C +50 °C ge +23 °C - +6	> 4 N/mm ² * > 4 N/mm ² * - 4 N/mm ² * - 15 N/mm ² - 14 N/mm ² - 14 N/mm ² - 100 °C) OT			
Heat deflection temperature	7 days 7 days 7 days 7 days 7 days 7 days *100% concrete fa 7.9 x 10 ⁻⁵ per Curing time 7 days (thickness 10 mm)	Concrete moist Concrete moist Steel Steel Steel ilure °C (Temp. rang	+25 °C +35 °C +25 °C +35 °C +50 °C ge +23 °C - +6 emperat- HE	> 4 N/mm ² * > 4 N/mm ² * ~15 N/mm ² ~14 N/mm ² ~14 N/mm ² ~10 °C			
Heat deflection temperature APPLICATION INFORMATIO	7 days 7 days 7 days 7 days 7 days 7 days *100% concrete fa 7.9 x 10 ⁻⁵ per Curing time 7 days (thickness 10 mm) N Component A	Concrete moist Concrete moist Steel Steel Steel illure °C (Temp. range Curing te ure +35 °C	+25 °C +35 °C +25 °C +35 °C +50 °C ge +23 °C - +6 emperat- HC +5	> 4 N/mm ² * > 4 N/mm ² * ~15 N/mm ² ~14 N/mm ² ~14 N/mm ² ~10 °C	(EN 1770) (ISO 75)		
Heat deflection temperature APPLICATION INFORMATIO Mixing ratio	7 days 7 days 7 days 7 days 7 days 7 days *100% concrete fa 7.9 x 10 ⁻⁵ per Curing time 7 days (thickness 10 mm) N Component A	Concrete moist Concrete moist Steel Steel Steel illure °C (Temp. rang Curing te ure +35 °C A: component	+25 °C +35 °C +25 °C +35 °C +50 °C ge +23 °C - +6 emperat- HC +5	> 4 N/mm ² * > 4 N/mm ² * ~15 N/mm ² ~14 N/mm ² ~14 N/mm ² ~10 °C			

Mixing ratio	Component A: component B = 2:1 by weight			
Consumption	~ 1.9 kg/m² per mm of thickness.			
Layer thickness	30 mm max. When using multiple units, one after the other. Do not mix the following			

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	unit until the previous one has been used in order to avoid a reduction in handling time.				
Sag flow	On vertical surfaces it is non-sag up to 15 mm thickness. (EN 1799				
Product temperature	Sikadur®-31 CF Slow can be applied at temperatures between +25 °C and +45 °C.				
Ambient air temperature	+25 °C min. / +45 °C max.				
Dew point	Beware of condensation. Substrate temperature during application must be at least 3 °C above dew point.				
Substrate temperature	+25 °C min. / +45 °C max.				
Substrate moisture content	Substrate must be dry or mat damp (no standing water) Brush the adhesive well into the substrate				
Pot Life	Temperature	Potlife*	Open time	(EN ISO 9514)	
	+25 °C	~ 120 minutes			
	+35 °C	~ 70 minutes			
	+45 °C	~ 45 minutes	~ 60 minutes		
	low temperatures. The high temperatures, the	greater the quantity mixed	e mixed. It is shorter at high ter the shorter the potlife. To obt ided into portions. Another me	ain longer workability at	

BASIS OF PRODUCT DATA

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.

IMPORTANT CONSIDERATIONS

Sikadur® resins are formulated to have low creep under permanent loading. However due to the creep behaviour of all polymer materials under load, the long term structural design load must account for creep. Generally the long term structural design load must be lower than 20–25 % of the failure load.

A structural engineer must be consulted for load calculations for the specific application.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Mortar and concrete must be older than 28 days. (depends on minimal requirement of strengths). Verify the substrate strength (concrete, masonry, natural stone).

The substrate surface (all types) must be clean, dry or mat damp (no standing water) and free from contaminants such as dirt, oil, grease, existing surface treatments and coatings etc..

Steel substrates must be de-rusted similar to Sa 2.5 The substrate must be sound and all loose particles must be removed.

SUBSTRATE PREPARATION

Concrete, mortar, stone, bricks: Substrates must be sound, dry or mat damp (no standing water), clean and free from laitance, ice, standing water, grease, oils, old surface treatments or coatings and all loose or friable particles must be removed to achieve a laitance and contaminant free, open textured surface. Steel: Must be cleaned and prepared thoroughly to an acceptable quality i.e. by blastcleaning and vacuum. Avoid dew point conditions.

MIXING

Pre-batched units:

Mix components A+B together for at least 3 minutes with a mixing spindle attached to a slow speed electric drill (max. 300 rpm) until the material becomes smooth in consistency and a uniform grey colour. Avoid aeration while mixing. Then, pour the whole mix into a clean container and stir again for $^{\sim}$ 1 minute at low speed to keep air entrapment at a minimum. Mix only that quantity which can be used within its pot life.

APPLICATION METHOD / TOOLS

When using a thin layer adhesive, apply the mixed adhesive to the prepared surface with a spatula, trowel, notched trowel, (or with hands protected by gloves). When applying as a repair mortar use some formwork. When using for bonding metal profiles onto vertical surfaces, press uniformly using props for at least 12 hours, dependent on the layer thickness applied (not more than 5 mm) and the room temperature.





Once hardened check the adhesion by tapping with a hammer

CLEANING OF EQUIPMENT

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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