

PRODUCT DATA SHEET

Sikadur®-41 CF Normal

3-component thixotropic epoxy patching mortar

DESCRIPTION

Sikadur®-41 CF Normal is a thixotropic, 3-component patching and repair mortar, based on a combination of epoxy resins and special fillers, designed for use at temperatures between +10 °C and +30 °C.

USES

As a repair and bonding mortar for:

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

As a repair mortar:

- Filling of cavities and voids
- Vertical and overhead use
- Corners and edges

As an abrasion and impact resistant wearing course:

- Joint filling and crack sealing
- Joint and crack arris / edge repair

CHARACTERISTICS / ADVANTAGES

Sikadur®-41 CF Normal has the following advantages:

- Easy to mix and apply
- Very good adhesion to most construction materials
- High strength
- 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
- Good chemical resistance

APPROVALS / CERTIFICATES

Mortar for structural and non-structural repair, tested according to EN 1504-3, provided with the CE-mark

PRODUCT INFORMATION

Composition	Epoxy resin	
Packaging	10 kg (A+B+C)	Pre-batched unit pallets of 480 kg (48 x 10 kg)
Colour	Component A: white Component B: dark grey Component C: sand Components A+B+C mixed: concrete grey	
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 sun-	

light.

Density 1.98 ± 0.1 kg/l (component A+B+C mixed) (at +21 °C)

TECHNICAL INFORMATION

Compressive strength	Curing time	Curing temperature			(DIN EN 196)
		+10 °C	+23 °C	+30 °C	
	1 day	~18 N/mm ²	~62 N/mm ²	~72 N/mm ²	
	3 days	~50 N/mm ²	~79 N/mm ²	~81 N/mm ²	
7 days	~64 N/mm ²	~82 N/mm ²	~82 N/mm ²		

Modulus of elasticity in compression ~ 9,000 N/mm² (14 days at +23 °C) (ASTM D 695)

Tensile strength in flexure	Curing time	Curing temperature			(DIN EN 196)
		+10 °C	+23 °C	+30 °C	
	1 day	~9 N/mm ²	~22 N/mm ²	~25 N/mm ²	
	3 days	~19 N/mm ²	~26 N/mm ²	~30 N/mm ²	
7 days	~31 N/mm ²	~38 N/mm ²	~38 N/mm ²		

Tensile strength	Curing time	Curing temperature			(ISO 527)
		+25 °C	+35 °C	+45 °C	
	1 day	~4 N/mm ²	~15 N/mm ²	~17 N/mm ²	
	3 days	~15 N/mm ²	~17 N/mm ²	~19 N/mm ²	
7 days	~16 N/mm ²	~19 N/mm ²	~21 N/mm ²		

Modulus of elasticity in tension ~ 4,000 N/mm² (14 days at +23 °C) (ISO 527)

Tensile strain at break 0.2 ± 0.1 % (7 days at +23 °C) (ISO 527)

Shrinkage Hardens without shrinkage.

Tensile adhesion strength	Curing time	Substrate	Curing temperature	Adhesion strength	(EN ISO 4624, EN 1542, EN 12188)
	7 days	Concrete dry	+10 °C	> 4 N/mm ² *	
	7 days	Concrete moist	+10 °C	> 4 N/mm ² *	
	7 days	Steel	+10 °C	~6 N/mm ²	
	7 days	Steel	+23 °C	~15 N/mm ²	

*100% concrete failure

Coefficient of thermal expansion 3.5 x 10⁻⁵ 1/K (Temp. range +23 °C – +60 °C) (EN 1770)

Heat deflection temperature	Curing time	Curing temperature	HDT	(ISO 75)
	7 days	+23 °C	+49 °C	

(thickness 10 mm)

APPLICATION INFORMATION

Mixing ratio Component A : B : C = 2 : 1 : 2.5 by weight
Component A : B : C = 2 : 1 : 3.4 by volume

Consumption The consumption of Sikadur®-41 CF Normal is ~ 2.0 kg/m² per mm of thickness.

Layer thickness 60 mm max.
When using multiple units, use one after the other. Do not mix the following 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 20 mm thickness. (EN 1799)

Product temperature Sikadur®-41 CF Normal must be applied at a temperatures between +10 °C

and +30 °C.

Ambient air temperature	+10 °C min. / +30 °C max.			
Dew point	Beware of condensation. Substrate temperature during application must be at least 3 °C above dew point.			
Substrate temperature	+10 °C min. / +30 °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	Pot life*	Open time	(EN ISO 9514)
	+10 °C	~ 180 minutes		
	+23 °C	~ 60 minutes		
	+30 °C	~ 40 minutes	~ 50 minutes	

*200 g

The pot life begins when the resin and hardener are mixed. It is shorter at high temperatures and longer at low temperatures. The larger the quantity mixed, the shorter the pot life. To obtain longer workability at high temperatures, the mixed adhesive may be divided into portions. Another method is to chill components A+B before mixing them (not below +5 °C).

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.

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, 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 blast-cleaning 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.

Then add part C and continue until mixture is homogeneous. Avoid aeration while mixing. Then, pour the whole mix into a clean container and stir again for approx. 1 more 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

Brush the adhesive well into the substrate. Sikadur®-31 CF can be used as primer to improve the bond.

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 form-work.

When using for bonding metal profiles onto vertical surfaces, support and press uniformly using props for at least 12 hours, depending on the 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 removed mechanically.

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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Product Data Sheet

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