

PRODUCT DATA SHEET

Sikadur®-32 Normal

2 part Epoxy based bonding agent.

DESCRIPTION

Sikadur®-32 Normal is a moisture tolerant, two part bonding agent, based on selected epoxy resins, designed for use at temperatures between +10 °C and +35 °C. After applying to hardened concrete surface, it provides a perfect bond for fresh concrete.

USES

Sikadur®-32 Normal may only be used by experienced professionals.

Sikadur®-32 Normal is used as a bonding agent and adhesive for:

- Concrete elements (including bonding fresh to hardened concrete)
- Hard natural stone
- Ceramics, fibre-cement
- Mortar, Bricks, Masonry
- Steel, Iron, Aluminium
- Wood
- Polyester / fibreglass and Epoxy resin materials
- Glass

PRODUCT INFORMATION

Chemical base	Epoxy resin	
Packaging	1.2 kg (A+B)	Pre-batched unit
		box of 6 x 1.2 kg
Colour	Component A: white Component B: dark grey Components A+B 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 sunlight.	

CHARACTERISTICS / ADVANTAGES

Sikadur®-32 Normal has the following advantages:

- Easy to mix and apply
- Suitable for dry and damp concrete surfaces
- Very good adhesion to most construction materials
- High bond strength
- Hardens without shrinkage
- Different coloured components (for mixing control)
- No primer needed
- High initial and ultimate mechanical strength

APPROVALS / STANDARDS

- Local & international test reports are available.

Density 1.4 ± 0.1 kg/l (component A+B mixed) (at +23°C)

TECHNICAL INFORMATION

Compressive Strength	Curing time		Curing temperature		(ASTM D 695)
			+23°C		
	7 days		≥ 35 N/mm²		
Modulus of Elasticity in Compression	~ 1000 N/mm² (14 days at +23°C)				(ASTM D 695)
Shear Adhesion Strength	Curing time	Curing temperature	Slant-shear Bond Strength	Test Method	
	2 days	+23°C	≥ 7 N/mm²	(ASTM C 882)	
	14 days	+23°C	≥ 10 N/mm²	(ASTM C 882)	

APPLICATION INFORMATION

Mixing ratio	A : B = 2 : 1		
Consumption	The consumption of Sikadur®-32 Normal is ~ 1.4 kg/m ² per mm of thickness.		
Product Temperature	Sikadur®-32 Normal must be applied at temperatures between +10°C and +35°C.		
Ambient Air Temperature	+10°C min. / +35°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. / +35°C max.		
Pot Life	Temperature	Potlife*	Open time
	+10 °C	~ 145 minutes	–
	+23 °C	~ 55 minutes	~ 120 minutes
	+30 °C	~ 35 minutes	~ 60 minutes
*200 g The potlife begins when the resin and hardener are mixed. It is shorter at high temperatures and longer at low temperatures. The greater the quantity mixed, the shorter the potlife. 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 CONSIDERATION

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. Please consult a structural engineer for load calculations for the specific application.

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

Hardened mortar and concrete must be older than 28 days (depending on any minimal strength requirements).

Verify the substrate strength by testing (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 to a condition similar to Sa 2.5.

The substrate must be sound and all loose or friable particles must be removed.

SUBSTRATE PREPARATION

Concrete, mortar, stone and brick

Concrete and other hardened mineral substrates must be prepared by suitable means such as high pressure water jetting and / or blast cleaning, in order to obtain surfaces that are sound, clean, dry or mat damp (no standing water) and free from any cement laitance, ice, grease, oils, old coatings or other surface treatments. Any loose or friable particles must also be removed to achieve a contaminant free and open textured surface.

Steel

Steel surfaces must be cleaned and prepared thoroughly to the acceptable quality standard equivalent to Sa 2.5 i.e. normally by blast cleaning and then removing any dust by 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 approx. 1 more minute at low speed to keep air entrapment at a minimum. Mix only that quantity which can be used within its potlife.

APPLICATION METHOD / TOOLS

Apply the mixed Sikadur®-32 Normal to the prepared surface by brush, roller, spray or with a trowel, and ensure uniform and complete coverage. On hardened concrete substrates mechanically prepared to receive fresh concrete, always apply by brush and work the material well into the substrate.

Place the fresh concrete whilst the Sikadur®-32 Normal layer is still 'tacky'. If the material becomes glossy and loses tackiness, apply a fresh coat with additional Sikadur®-32 Normal and proceed.

CLEANING OF TOOLS

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 re-

serves 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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