

PRODUCT DATA SHEET

Sikadur®-30 MY

ADHESIVE FOR BONDING REINFORCEMENT

DESCRIPTION

Sikadur®-30 MY is a thixotropic, structural two part adhesive, based on a combination of epoxy resins and special filler, designed for use at normal temperatures between +25 °C and +45 °C.

USES

Sikadur®-30 MY may only be used by experienced professionals.

Adhesive for bonding structural reinforcement, particularly in structural strengthening works. Especially for the following uses:

- Sika® CarboDur® Plates to concrete, brickwork and timber (for details see the Sika® CarboDur® Product Data Sheet).
- Steel plates to concrete (for details see the relevant Sika Technical information).

CHARACTERISTICS / ADVANTAGES

Sikadur®-30 MY has the following advantages:

- Easy to mix and apply.
- No primer needed.
- High creep resistance under permanent load.
- Very good adhesion to concrete, masonry, stone-work, steel, cast iron, aluminium, timber and Sika® CarboDur® Plates.
- Hardening is not affected by high humidity.
- High strength adhesive.
- Thixotropic: non-sag in vertical and overhead applications.
- Hardens without shrinkage.
- Different coloured components (for mixing control).
- High initial and ultimate mechanical resistance.
- High abrasion and shock resistance.
- Impermeable to liquids and water vapour.

PRODUCT INFORMATION

Composition	Epoxy resin		
Packaging		6 kg prebatched unit	12 kg prebatched unit
	Part A	4 kg container	8 kg container
	Part B	2 kg container	4 kg container
Colour	Part A	White	
	Part B	Black	
	Part A+B mixed	Concrete grey	
Shelf Life	24 months from date of production		
Storage Conditions	Store properly in original unopened, sealed and undamaged packaging, in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunshine.		
Density	1.80 ± 0.10 kg/l (Part A+B mixed) at +27 °C		

TECHNICAL INFORMATION

Compressive Strength	24 hours	> 60 N/mm ²	(FIP 5.12 and IS 9162-1979) at +25 °C
	7 days	> 75 N/mm ²	
Shear Strength	> 12 N/mm ²		(FIP 5.15, Slant shear cylinder test) at +25 °C
Shrinkage	Hardens without shrinkage		
Temperature Resistance	Meets the requirements of FIP 5.10 and ASTM D648		
Heat Deflection Temperature	> 50 °C		(ASTM D 648, curing conditions: 7 days/+25 °C)

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 2 : 1 by weight		
Layer Thickness	30 mm max.		
Sag Flow	On vertical surfaces non-sag up to 6.4 mm thickness		(FIP 5.3)
Squeezability	Squeeze load	15 kg	(FIP 5.4)
	Squeeze area	> 5 000 mm ²	
Product Temperature	+25 °C min. / +45 °C max.		
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	When applied to mat moisture concrete, brush the adhesive well into substrate.		
Pot Life	> 40 minutes, at 45 °C, 100 g mass		(FIP 5.1)
	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.		
Open Time	> 65 minutes at +45 °C, 100 g mass		(FIP 5.2)

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

See the Product Data Sheet of Sika® CarboDur® Plates and Sika® CarboDur® BC rods.

SUBSTRATE PREPARATION

See the “Method Statement for Sika® CarboDur® Externally Bonded Reinforcement” Ref: 850 41 05 and the “Method Statement for Sika® CarboDur® Near Surface Mounted Reinforcement” Ref: 850 41 07.

MIXING

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

See the “Method Statement for Sika® CarboDur® Externally Bonded Reinforcement” Ref: 850 41 05 and the “Method Statement for Sika® CarboDur® Near Surface Mounted Reinforcement” Ref: 850 41 07.

CLEANING OF TOOLS

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

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.

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.

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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Product Data Sheet

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