

## PRODUCT DATA SHEET

# Sikadur<sup>®</sup>-52 Injection LP

### LOW VISCOSITY INJECTION RESIN

#### DESCRIPTION

Sikadur<sup>®</sup>-52 Injection LP is a low viscosity liquid injection product based on two-component, solvent-free, high strength epoxy resins.

#### USES

Injection resin with good adhesion to concrete, mortar, stone, steel and wood. Sikadur<sup>®</sup>-52 Injection LP is used to fill and seal holes and cracks in structures such as bridges and other civil and industrial constructions including pillars, beams, foundations, walls, screeds and deposits.

Not only does it form an effective barrier against water seepage and the advance of corrosion, it also bonds or joins existing concrete sections.

#### CHARACTERISTICS / ADVANTAGES

- Contains no solvents.
- Can be used with wet or dry substrate.
- Can be used at low temperatures.
- Hardens without shrinkage.
- High mechanical and adhesion resistance.
- Hard but not fragile.
- Very low viscosity.
- Injectable with single-component pumps.

#### APPROVALS / CERTIFICATES

CE Marking and Declaration of Performance to EN 1504-5 - Concrete Injection

#### PRODUCT INFORMATION

<b>Composition</b>	Two-component modified epoxy resin free of solvents.	
<b>Packaging</b>	Lots of 1 kg.	
<b>Colour</b>	Comp. A: Transparent Comp. B: Brown Mixed A+B Comp: Transparent Yellow	
<b>Shelf life</b>	24 months from the date of manufacture	
<b>Storage conditions</b>	In their original containers, well closed and not damaged in a dry place at temperatures between +5°C and +30°C.	
<b>Density</b>	Comp. A: 1,1 kg/l. (at +20°C). Comp. B: 1,0 kg/l (at +20°C) Comp. A+B mixed (2:1) 1,1 kg/l (at +20°C)	
<b>Viscosity</b>	Temperatures	Comp A + B mixed (2:1)
	+ 10 °C	-
	+ 20 °C	≈ 330 mPa
	+ 30 °C	≈ 150 mPa
	+ 40 °C	≈ 95 mPa

## TECHNICAL INFORMATION

Compressive Strength	34 N/mm <sup>2</sup> (after 7 days at +23°C)	(According ASTM D695-96)
Tensile Strength in Flexure	41 N/mm <sup>2</sup> (after 7 days at +23°C)	(According to DIN 53452)
Tensile Strength	24 N/mm <sup>2</sup> (After 7 days at 23°C)	(According to ISO 527)
Modulus of Elasticity in Tension	1100 N/mm <sup>2</sup> (After 7 days at 23°C)	(According to DIN 53 452)
Tensile Adhesion Strength	Adhesion to concrete according to DafStb-Richtlinie, part 3	>4 N/mm <sup>2</sup> (concrete breaks) -(after 7 days at +23°C)
Coefficient of Thermal Expansion	94 x 10 <sup>-6</sup> / °C ( from -20°C to +40°C)	(According to EN ISO 1770)

## APPLICATION INFORMATION

Mixing Ratio	Mixing ratio A: B = 2:1 parts by weight and by volume	
Consumption	1 kg of Sikadur®-52 Injection LP is equivalent to 1 l of injection resin.	
Ambient Air Temperature	Mín. +5°C /max. +30°C	
Substrate Temperature	Mín. +5°C /max. +30°C	
Substrate Moisture Content	Dry or wet (surface saturated with water: not flooded).	
Pot Life	Temperatures	Pot life (1 kg mixed)
	+ 5 °C	-
	+ 10 °C	-
	+ 20 °C	≈ 70 minutes
	+ 30 °C	≈ 30minutes
	+ 40 °C	≈ 10 minutes

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

#### Requirements:

Healthy, clean, free of oils and greases, old paints and surface treatments etc.

#### Pre-treatment for good adhesion:

Concrete, mortar, stone must be treated by pressure water jet or mechanical means such as sanding or honing. Cracks must be cleaned to remove dust using an air compressor.

### MIXING

Add all component B to component A. Mix with a low-speed electric mixer (max. 250 rpm) for at least 3 minutes until. Avoid air inlet.

### APPLICATION METHOD / TOOLS

#### Cracks in horizontal planes:

Saturate the crack by applying the product by roller in several passes or by pouring between two "barriers" made with Sikaflex®. The screeds must be sealed on the underside with Sikadur®-31 epoxy mortar or Sika® cementitious mortars.

#### Cracks in vertical planes:

Sikadur®-52 Injection LP can be injected under pres-

sure into cracks using a single-component injection pump, for example Aliva AL-1200 or AL-1250. The injectors should be placed at a distance of 25 cm and the fissure between sections of injectors should be superficially sealed with Sikadur®-31 to avoid the loss of resin during the injection process. Vertical cracks must be injected from the bottom up. As soon as the resin oozes through the next injector, the first must be sealed and continue the injection process from the next. After completing the injection process, the injectors and sealing material can be removed.

### CLEANING OF EQUIPMENT

Clean tools and application equipment with Sika® Colma Limpiador immediately after use. The hardened/cured product can only be removed by mechanical means.

## IMPORTANT CONSIDERATIONS

Maximum width of cracks that can be injected: 5 mm. Sikadur®-52 Injection LP is suitable for wet or dry substrates but is not applicable in the presence of water.

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based

on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

For any information regarding safety issues in the use, handling, storage and disposal of chemical residues, users should consult the latest version of the product Safety Data Sheet, which contains 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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