

PRODUCT DATA SHEET

Sikadur® Injectokit LV

Low viscosity epoxy crack injection resin

DESCRIPTION

The Sikadur® Injectokit LV system consists of a low viscosity two part epoxy crack injection resin contained in a patented single cartridge with injection nipples, hoses, and air release pins also available. The system is designed for situations where a complete injection system is required.

USES

For injecting cracks in concrete and masonry wherever there is a need to consolidate a structure or exclude water and air from contact with reinforcement. Due to its low viscosity, cracks down to 0.2 mm at the surface can be filled. Ideal for small scale repairs on site. Can be used for insitu or precast concrete elements.

CHARACTERISTICS / ADVANTAGES

- Convenient to use, disposable single cartridge contains both resin and hardener.
- Safe and clean to use, non return valves avoid leakage and spills.
- High strength, excellent bond to concrete, brickwork and masonry, either wet or dry.
- Modular nature, effective and economical use even for the smallest repair.

PRODUCT INFORMATION

Chemical Base	Low viscosity two part crack injection resin		
Packaging	The following Sikadur® Injectokit LV components are required for this system and are sold as separate items: <ul style="list-style-type: none"> ▪ Sikadur® Injectokit LV 250g cartridges ▪ Sikadur® Injectokit LV hoses ▪ Injection nipples ▪ Air release pins ▪ Epoxy based surface sealer (Sikadur® UA Concrete Fix, Sikadur®-31/-31+, Sika AnchorFix®-3001) 		
Shelf Life	Twelve (12) months from date of manufacture when stored as stated.		
Storage Conditions	Store in original containers at +10°C to +40°C in dry conditions.		
Viscosity	10°C	20°C	30°C
	400-800 mPas	250-500 mPas	100-250 mPas

TECHNICAL INFORMATION

Compressive Strength	>70 N/mm ² (After 7 days curing at 20°C)	(BS 6319)
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Modulus of Elasticity in Compression	~3,9000 MPa	(EN 527-1/2)
Tensile Strength	>55 N/mm ² (After 7 days curing at 20°C)	(ISO 527)
Elongation at Break	2.5%	
Tensile Adhesion Strength	When tested to BS3900 Pt E10 in both dry and wet states is greater than normal concrete.	

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.

LIMITATIONS

- Sikadur® Injectokit LV should only be used for cracks where access to all sides for sealing is available.
- In other cases Sikadur Injectokit-TH (thixotropic - see separate data sheet) should be used.
- Sikadur® Injectokit LV should not be used for cracks where movement is expected to continue.
- Sikadur® Injectokit LV is recommended for use only as described in the Uses section of this datasheet

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 PREPARATION

The surface sealant needs to retain the injection system under pressure. Care must be taken to provide a bond surface which is clean, dry, sound and free from contamination by oil or grease.

APPLICATION METHOD / TOOLS

SURFACE SEALER: Where it is desirable or acceptable to inject the crack at least 24 hours after preparation, Sikadur UA CONCRETE FIX, Sikadur®-31/-31+ or Sika AnchorFix®-3001 can be used as a temporary surface sealer for the surface of the crack and round the injection nipples.

APPLICATION OF THE SURFACE SEALER:

- Immediately after mixing, apply a small amount of 'surface sealer' compound to the back of each nipple making sure that the valve will not be blocked, and place the nipple over the crack.
- The valve (centre) should be placed over the crack.
- Nipples should be placed at centres that are equal to the thickness of the element, generally 200 - 500mm apart. If the element thickness is unknown, seek guidance from the Project Engineer.
- Additional sealant should be applied onto the flange of the nipple to ensure a resin tight seal to the substrate.
- Surface sealer should be knifed into the crack

between nipples to ensure a resin tight seal at 25mm - 50mm wide x 1-3mm thick.

- Continue the sealer 50 mm beyond the end of the line of the visible crack.
- Application of the injection system may be commenced as soon as the surface sealer has fully hardened.

INJECTION OF THE Sikadur® Injectokit LV:

Hit the side of the capsule near the base with a hammer 2 or 3 times on different sides to break the internal glass container of hardener. (The glass can be heard moving when broken.) To mix the resin, invert the cartridge 20-30 times slowly. Do not shake vigorously otherwise air will be incorporated. Use the mixed material within the usable life.

Pierce the foil seal in the threaded end of the cartridge. Screw the Sikadur® Injectokit LV hose onto the cartridge. Ensure that the rubber 'O' ring is in place on the cartridge. Do not over tighten the fitting as this may distort the 'O' ring.

Place the cartridge into an application gun. Push the free end of the Sikadur® Injectokit LV hose onto the first (lowest) nipple and tighten down the locking cap. Do not over tighten. Insert an air release pin into the next nipple above the injection point. *Note: Do not start pumping until the air release pin is inserted to open the non return valve and release trapped air.*

Commence pumping slowly, do not use excessive pressure (max. 30psi). The rate of acceptance on fine cracks may be very slow. When resin appears at the nipple next to the injection point:

1. stop pumping
2. release the pressure on the injection gun
3. remove the air release pin
4. unscrew the cap and with a twisting movement pull off the Sikadur® Injectokit LV hose.

Attach the Sikadur® Injectokit LV hose to the next nipple. Insert air release pin in the next injection nipple and recommence pumping. Repeat the process until the entire length of crack has been injected. On completion of pumping, the last cartridge can be left connected and pressurised slightly to allow for possible seepage into deep seated cracks.

MAKING GOOD: After the Sikadur® Injectokit LV injection resin has set, remove the nipples. These can be knocked off with a hammer. Make good any holes or voids with the selected surface sealer. The existing surface sealer can then be removed by either grinding or heating with a hot air gun and scraping the surface until the original substrate profile is restored.

CLEANING OF TOOLS

Uncured product on tools and application equipment should be cleaned using Sika Thinner C. Hardened material can only be mechanically removed.

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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