

Technical Data Sheet
Edition 2, 2012
Identification no.
02 07 07 03 000 0 000007
Version no. 0010
Sikadur® Injectokit-LV

Sikadur® Injectokit-LV

Pre-packaged low viscosity epoxy crack injection system

Positioning Description	The Sikadur® Injectokit-LV system consists of a low viscosity two part epoxy crack injection resin contained in a patented single cartridge, complete with injection nipples, hoses, and air release pins. The kit is designed for those contracts where a complete injection system is required.
Use	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. Cracks tapering internally down to 0.1 mm can be filled. Ideal for small scale repairs on site. Can be used for insitu or precast concrete elements.
Advantages	<ul style="list-style-type: none"> ■ 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 Data	
Form	Low viscosity two part crack injection resin
Storage & Shelf Life	Shelf life 12 months when stored in original containers at 10°C – 40°C in dry conditions.
Packaging	The following Sikadur® Injectokit-LV components are sold as separate items: <ul style="list-style-type: none"> ■ 0.25 litre cartridges ■ Injection nipples ■ Sikadur Injectokit-LV hoses ■ Air release pins

Technical Data		10°C	20°C	30°C	40°C
	Usable Life (minutes)	100	50	25	15
	Viscosity (mPas)	400-800	250-500	100-250	-
	Set time (hours)	12	7	5	3

Compressive strength	>70 N/mm ² (BS6319)	(After 7 days curing at 20°C)
Flexural strength	>45 N/mm ² (ISO R178)	(After 7 days curing at 20°C)
Tensile strength	>55 N/mm ² (ISO527)	(After 7 days curing at 20°C)
Modulus of elasticity	Approx. 2,800 N/mm ²	
Elongation at break	2.5%	
Tensile bond strength	When tested to BS3900 Pt E10 in both dry and wet states is greater than normal concrete.	

Application Conditions	
Surface preparation	<ul style="list-style-type: none"> ■ 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.
Surface sealant	<ul style="list-style-type: none"> ■ 5 Minute Epoxy should be used where preparation and injection need to be completed in a short space of time. ■ Where it is desirable or acceptable to inject the crack at least 24 hours after preparation, Sikadur UA CONCRETE FIX can be used as a surface sealant.

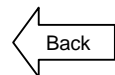


Table of Contents

Application of the surface sealant	<ul style="list-style-type: none"> ■ Immediately after mixing, apply a small amount of 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 between 200 mm and 500 mm apart dependent on crack size. ■ Additional sealant should be applied onto the flange of the nipple to ensure a resin tight seal to the substrate. ■ Surface sealant should be knifed into the crack between nipples to ensure a resin tight seal. ■ Continue the sealant 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 sealant has fully hardened (5 Minute Epoxy: 5 minutes at 20°C)
Injection of the Sikadur Injectokit-LV epoxy resin	<ul style="list-style-type: none"> ■ The 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 a standard 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. ■ The rate of acceptance on fine cracks may be very slow. ■ When resin appears at the nipple next to the injection point: <ul style="list-style-type: none"> (a) stop pumping (b) release the pressure on the injection gun (c) remove the air release pin (d) 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 nipple beyond 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	<ul style="list-style-type: none"> ■ 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 sealant. ■ The existing surface sealant 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	Tools and application equipment should be cleaned using Sika Thinner C.
Important Notes Limitations	<ul style="list-style-type: none"> ■ 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.
Notes	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.



Health & Safety Instructions

Protective Measures

- To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.
- Local regulations as well as health and safety advice on packaging labels must be observed.
- For further information refer to the Sika Material Safety Data Sheet which is available on request.
- If in doubt always follow the directions given on the pack or label.

Important Notes

- Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.
- Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.

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 product 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.



PT. Sika Indonesia
 Jl. Raya Cibinong- Bekasi km. 20
 Limusunggal- Cileungsi
 BOGOR 16820 - Indonesia
 Tel. +62 21 8230025
 Fax +62 21 8230026
 Website : www.sika.co.id
 idn.sika.com
 e-mail: sikacare@id.sika.com

Branches
 Surabaya :
 Komp. Pergudangan Meiko Abadi III Blok B-52 & B-53, Ds. Gemurung,
 Gedangan, Sidoarjo 61254
 Tel : 031- 8911333; Fax : 031-8916333
 Medan :
 Jl. Serbaguna (Simp. Jalan Veteran), Kompleks Pergudangan Brayan
 Trade Center No. 34, Medan 20239
 Tel : 844 6697, 844 6997 ; Fax : (061) 844 6698
 Batam :
 Jl. Laksamana Bintan, Komp. Bumi Riau Makmur Blok E No.3, Sungai Panas
 Tel : (0778) 424928; Fax : (0778) 450189

