

PRODUCT DATA SHEET

Sikadur® Injectokit TH

Thixotropic epoxy crack injection resin

DESCRIPTION

The Sikadur® Injectokit TH system consists of a thixotropic two part epoxy crack injection resin contained in a patented single cartridge, with injection nipples, hoses, air release pins, and stirring rods 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 thixotropic nature it can be injected into open ended cracks where depth and quantity of resin need to be controlled. Crack widths of 2 mm or greater 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.
- Thixotropic, can be injected into cracks where access to all sides for sealing is not available.
- 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	Thixotropic two part crack injection resin	
Packaging	The following Sikadur® Injectokit TH components are sold as separate items: <ul style="list-style-type: none"> ▪ Sikadur® Injectokit TH 250g cartridges ▪ Injection nipples ▪ Sikadur® Injectokit TH hoses ▪ Air release pins ▪ Stirring rods ▪ Epoxy based surface sealer (Sika AnchorFix-3001, Sikadur-31/31+, Sikadur UA Concrete Fix) 	
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.	
Compressive Strength	>70 N/mm ² (after 7 days curing at 20°C)	(BS 6319)
Flexural Strength	>45 N/mm ² (after 7 days curing at 20°C)	(ISO R178)
Tensile Strength	>22 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.			
Pot Life	+10°C 100 mins.	+20°C 50 mins.	+30°C 25 mins.	+40°C 15 mins.
Curing Time	+10°C 12 hours	+20°C 7 hours	+30°C 5 hours	+40°C 3 hours

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 TH should not be used for cracks where movement is expected to continue.

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 sealer 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.

APPLICATION OF THE SURFACE SEALANT:

- 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 sealer 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.
- Where cracks can be sealed on one side only, nipples should be placed at centres which are 80% of the

depth to which the resin is required to penetrate.

- Application of the injection system may be commenced as soon as the surface sealer has fully hardened.

INJECTION OF THE RESIN:

Insert T-shaped rod through the conical nozzle and turn clockwise to engage stirring head in cartridge. Push rod down the full length of the cartridge to break the membrane separating the resin and hardener. Pump up and down 30 to 40 times to mix resin and hardener. Turn the T-shaped rod anticlockwise to disengage and then remove. Do not shake. Unscrew the conical nozzle and discard. Use the mixed material within the usable life.

Screw the Sikadur® Injectokit TH hose onto the cartridge. Ensure the rubber 'O' ring is in place on the cartridge. Do not over tighten the fitting as this may distort the 'O' ring. Place cartridge into a standard gun. Push the free end of the Sikadur® Injectokit TH hose onto the nipple positioned over the widest point of the crack and tighten down the locking cap. Do not over tighten.

Insert an air release pin into the nipple adjacent to the injection point. *Note: Do not start pumping until the air release pin is inserted to release 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:

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 TH hose.

Attach the Sikadur® Injectokit TH hose to the next nipple. Insert air release pin in the next 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: After Sikadur® Injectokit TH injection resin has set, remove the nipples. These can be knocked off with a hammer. Fill 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 material on tools and application equipment should be cleaned using Sika Thinner C. Uncured material can only be removed mechanically.

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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