



PRODUCT DATA SHEET

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INJECTION GROUTING

SikaFix® PU

FLEXIBLE POLYURETHANE GROUT

Description	SikaFix® PU is a low-toxicity, two-component, 100% solid, polyurethane foam. It will displace and stop flowing water, forming a tough flexible foam, firmly bonded to the concrete surface.
Where to Use	<ul style="list-style-type: none"> Can be used to stop water under a hydrostatic head and provide a resilient tough and flexible, closed cell polyurethane grout. Cracks in tanks, tunnels, pipes, basements, pools, subways or any structure where water intrusion must be stopped.
Advantages	<ul style="list-style-type: none"> The final cured product is a non-toxic rubber foam similar to that used in shoe soles. High bond strength even to damp surfaces. Flexible and easy to use. Waterproofs and seals cracks quickly and efficiently. Ministry of Transport Québec acceptance. Low Pressure Procedure (for low water flow): SikaFix® PU is supplied in a single or side-by-side cartridges and is easily dispensed with a manual gun through a 6 mm (1/4 in) mixing tube. Sika® Injection T's are used for this procedure. High Pressure Procedure (for high water flow): SikaFix® PU is supplied in a simple 1:1 ratio unit, it can be dispensed through a pneumatic or manual dispenser.

Technical Data

Packaging	250 mL (8.45 US fl. oz) single piston cartridges, 12 per case 600 mL (20.2 US fl. oz) side-by-side 1:1 cartridges, 12 per case		
Yield	1 L (33.8 US fl. oz) grout = approx. 25 L (6.6 US gal.) foam (typical free expansion) 1 L (33.8 US fl. oz) grout = approx. 3 L (0.79 US gal.) foam (typical contained expansion) Variation in crack/void configuration, injection conditions and end use will influence the yield.		
Shelf Life	1 year in unopened packaging. Store in a heated area, on pallets. Do not allow product to freeze. Once opened and depending on humidity level, shelf life may be reduced to as little as 3 months.		
Mix Ratio	A:B = 1:1 by volume		
Properties at 23 °C (73 °F) and 50 % R.H.			
Component	Part A	Part B	Mixed A+B
Specific Gravity	1.02 kg/L	1.24 kg/L	1.13 kg/L
Viscosity	250 cps	200 cps	500 cps
Colour	Straw	Dark amber	Amber
Pot Life (200 g)	60 min*		

*With increased humidity the presence of moisture reduces the pot life. When displacing water the foam development is rapid.

Reaction & Gel Times (s=seconds)

SikaFix® PU	Reaction Time	Gel Time
	39 s	460 s

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

HOW TO USE

Surface Preparation

Low Pressure Injection: Use Sika® Injection T's or use Sika® Injection Ports and fit the fat end into 13 mm (1/2 in) holes.

High Pressure Injection: Use Sika® HD Packers in 9.5 mm (3/8 in) holes. Drill holes at a 45° angle to intersect the crack approx. 100 mm (4 in) below the concrete surface. These holes should be drilled alternately on opposite sides of the crack allowing a 200 mm (8 in) distance between them. This should ensure crack intersection. After fitting injection ports or packers, drilled holes should be flushed out using water delivered through a 6 mm (1/4 in) hose from a pressure pot (low pressure) or a high-pressure pump or grease gun (high pressure). Be careful to check that each hole intersects a crack and a path is available for subsequent injection. Where no travel is evident, additional holes should be drilled to provide the necessary access to the crack. All cracks must either contain moisture or be pre-wetted in order to trigger a reaction and activate the expansion mechanism.

Application	Attach the static mixer to the cartridge and dispense SikaFix® PU using either a pneumatic or manual dispenser. Injection of SikaFix® PU is carried out, starting at the lowest injection point. As SikaFix® PU moves into the crack, water is displaced ahead of it. Once all the water is released, SikaFix® PU will follow the water - when this is observed, injection should move on to the next packer and the same process continued along the crack until it is completed. Excess SikaFix® PU appearing on the crack surface can be easily removed when product has stopped foaming, using a sharp knife.
Clean Up	Use SikaFix® Pump Flush, a non-flammable solvent, to clean tools, lines and equipment of uncured product. Cured material can only be removed mechanically.
Limitations	<ul style="list-style-type: none"> ▪ For reaction of the material to take place and the expansion mechanism to be activated, all cracks must either contain moisture or be pre-wetted. ▪ For potable water contact applications, use SikaFix® HH+ which is ANSI/NSF Standard 61 approved.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN

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, within their shelflife. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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