

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. ■ Ministry of Environment Ontario 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 Ports 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 1:1 injection pump or premixed and dispensed through a high pressure pump or grease gun.

Technical Data

Packaging	22.5 L (5.9 US gal.) unit, 250 mL (8.5 fl.oz) and 600 mL (20.2 fl.oz) Pre-Pack cartridge, 12/case
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.
Mixing Ratio	A:B = 1:1 by volume

Properties at 23°C (73°F) and 50% R.H.

Component	Resin A	Hardener B	Mixed A+B
Specific Gravity	1.02	1.24	1.13
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.

How to Use

Surface Preparation

Low Pressure Injection - Use injection tees or use Sika 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.



Mixing	Pre-Pak cartridges or two-component pump is the preferred equipment for grouting with SikaFix® PU. However, if a one-component method is being adopted, SikaFix® PU should be fully mixed by pouring the contents of "B" into "A" and mixing with a low-speed power mixer (200-300 rpm) until an even and smooth consistency is developed. Scrape the sides and bottom of the mix container to ensure a complete mix is obtained. It is advisable to mix just a part of the unit initially [1 L (2 pts) would be appropriate] to determine the resin rate of travel and confirm how much product can be used within its pot life.
Application	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.
Limitations	<ul style="list-style-type: none"> For potable water contact applications, order SikaFix® HH which bears the NSF approval for use in potable water.
Clean Up	Use a product containing a MEK and xylene base to clean tools and a non-flammable solvent to clean the feeding lines
Caution	SikaFix® PU is a M.D.I. based two-component aliphatic polyurethane. Within the generic group of polyurethane polymer technology the M.D.I. based polyurethanes are considered the safest in terms of safety and toxicity. Isocyanates are designated substances and are capable of producing a severe allergic breathing problem in some people. Repeated skin contact can also cause sensitization. Protective clothing, rubber gloves and chemical goggles should be worn when working with these products. A face mask with organic cartridge and a particulate filter is usually adequate. Air supplied mask is suitable for use in confined areas. Consult product label for additional information.
First Aid	In case of skin contact, wash with soap and water. For eye contact flush immediately with plenty of water for at least 15 min. Contact a physician. For respiratory problems, transport victim to fresh air. Remove contaminated clothing and wash before re-use.

For more information, consult Sika Material Safety Data Sheet.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

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 shelf life. 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under www.sika.ca.



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