

**Product Data Sheet**  
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 Sika® Injection Pumps

## Sika® Injection Pumps

### 1-part Injection Pumps

<b>Product Description</b>	Sika® Injection Pumps are a range of injection equipment suitable for the injection of a wide range of injection materials.
<b>Uses</b>	Sika® 1-part injection pumps are designed for use by professionals in crack injection, void filling, post-construction horizontal water stops and injection hose systems. They are suitable for Sika® epoxy, polyurethane, acrylic and microfine cement based injection materials and also for the fast-reacting Sika® polyurethane injection foams.
<b>Characteristics / Advantages</b>	<ul style="list-style-type: none"> <li>■ Constant injection pressure to ensure even material flow</li> <li>■ Complete injection units, including feed container, high-pressure hose, ball valve, injection hose and non-return zerk coupling</li> <li>■ Variable injection pressure</li> <li>■ Cost effective injection pumps for typical small scale injection work (Hand pumps)</li> <li>■ Easy to operate</li> </ul>

### Product Data

#### Form

#### Types

##### Sika® Injection Pump EL-1

Thanks to its low weight, the electric injection pump Sika® Injection Pump EL-1 (1.6 l/min.) is easy to handle and transport. The pump is suitable for the injection of low-viscosity epoxy, polyurethane and acrylic injection resins including **Sika® Injection-29/-101/-105/-201/-203/-451** and **Sikadur®-52/-53**.



##### Sika® Injection Pump EL-2

Compared to the "smaller" Sika® Injection Pump EL-1, the electric injection pump Sika® Injection Pump EL-2 is characterised by its higher flow rate (2.5 l/min.) and it is therefore particularly suitable for the injection of low-viscosity epoxy, polyurethane and acrylic injection resins including **Sika® Injection-29/-101/-105/-201/-203/-451** and **Sikadur®-52/-53**. The Sika® Injection Pump EL-2 has been approved for use according to the German ZTV-ING (RISS).



### Sika® Injection Pump MFC-1

Sika® Injection Pump MFC-1 is an electric membrane pump for the injection of Sika® microfine cement suspensions, such as Sika InjectoCem-190. The ready-mixed material is pumped directly out of the mixing container, so that it is not necessary to pour the material into another container.



Sika Injection Pump MFC-1 allows continuous pumping without separation of the materials. The maximum grain size that can be pumped is 0.3mm.

### Sika® Injection Pump Hand-1

The Sika® Injection Pump Hand-1 is an easy to handle „one-way“ hand-operated injection press for the easy and effective injection of minor cracks, voids and cavities. It is particularly suitable for the injection of low-viscosity epoxy and polyurethane injection resins including Sika® Injection-101/-105/-201/-203/-451 and Sikadur® -52/-53.



### Sika® Injection Pump Hand-2

The Sika® Injection Pump Hand-2 is suitable for the injection of polyurethane, epoxy and acrylic resins up to an injection pressure of 100 bar. The single-piston pump is made of non-ferrous metal.



Sika Injection Pump Hand-2 is used for the injection of low-viscosity epoxy, polyurethane and acrylic injection resins including Sika® Injection-29/-101/-105/-201/-203/-451 and Sikadur® -52/-53.

## Technical Data

### Electric pumps:

Sika® Injection Pump	EL-1	EL-2	MFC-1
Operating pressure	0-150 bar	0-250 bar	2-20 bar
Delivery rate (120 bar)	1,6 l/min	2,5 l/min	max. 8.5 l/min (at 20bar)
Voltage	240 V/50 Hz	240 V/50 Hz	240 V/50 Hz
Power	0,55 kW	0,75 kW	1,5 kW
Cable length	3 m	6 m	5 m
Feed container	6 l	6 l	with suction hose
Weight	Approx. 18 kg	Approx. 24 kg	Approx. 55 kg
HP hose	3 m	3 m	5 m

### Hand pumps:

Sika® Injection Pump	Hand-1	Hand-2
Operating pressure	0-400 bar	0-100 bar
Delivery rate	~ 0.03 l/stroke	0,035 l/stroke
Feed container	0.4 L	with suction hose
Weight	1.36 kg	Approx. 11 kg
HP hose	0.3 m	3 m

<b>System Information</b>	
<b>Application Instructions</b>	
<b>Application Method / Tools</b>	For detailed application instructions please refer to the relevant Product Data Sheet for the injection resin or to the relevant Method Statement.
<b>Cleaning of Tools</b>	<p><b>Sika Injection Pump MFC-1</b></p> <ul style="list-style-type: none"> <li>■ Clean the pump with water directly after the injection work is finished. Hardened/cured material can only be removed mechanically.</li> <li>■ For more detailed information on how to clean the pump, please refer to the operating instructions.</li> </ul> <p><b>Sika Injection Pump EL-1, EL-2, Hand-1 and Hand-2</b></p> <ul style="list-style-type: none"> <li>■ Clean all tools and application equipment with Sika® Colma-Cleaner immediately after use to remove any polyurethane, acrylic or epoxy residue. Hardened/cured material can only be removed mechanically.</li> <li>■ Fill the feed container with approx. 1 liter of Sika® Colma-Cleaner and put the pump into closed circuit operation for at least 5 minutes.</li> <li>■ Set the pump to maximum pressure with the ball valve closed using the pressure control valve.</li> <li>■ Open and close the ball valve at short intervals to clean the outlet valve of the pump, the pressure gauge and the ball valve.</li> <li>■ Empty the feed container completely, take off the high-pressure hose and store it in such a way that it will fully drain (open the ball valve).</li> <li>■ Fill the feed container with pump-preservative (oil) up to the top edge of the suction valve.</li> </ul> <p><b>IMPORTANT NOTE: Do not leave Sika® Colma-Cleaner in the injection pump as this can damage the equipment.</b></p>
<b>Value Base</b>	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.
<b>Local Restrictions</b>	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.
<b>Health and Safety Information</b>	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
<b>Health &amp; Environment</b>	See separate safety data sheet
<b>Health &amp; Environment</b>	
<b>Legal notes</b>	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 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 proprietary rights of this 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 obtained at <a href="http://www.sika.se">www.sika.se</a> .



Sika Sverige AB  
 Domnarvsgatan 15  
 Box 8061  
 SE-163 08 Spånga  
 Sverige

Tel. +46 8 621 89 00  
 Fax +46 8 621 89 89  
 www.sika.se

