

## Sika® Injection Pumps

### 1-part Injection Pumps

#### Positioning

##### Description

Sika® Injection Pumps are a range of injection equipment suitable for the injection of a wide range of injection materials.

##### Uses

Sika® 1-part injection pumps are designed for use by professionals in crack injections, 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.

##### Advantages

- Constant injection pressure to ensure even material flow
- Complete injection units, including feed container, high pressure hose, ball valve, injection hose and non-return zerk coupling
- Variable injection pressure
- Cost effective injection pump for typical small scale injection work (Hand pumps)
- Easy to operate

#### Product Data

##### Types

##### Sika® Injection Pump EL-1

Thanks to its low weight, the electric injection pump Sika® Injection 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 0.3 mm.

### 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/-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 20 bar)
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	~ 18 kg	~ 24 kg	~ 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 (120 bar)	~ 0.03 l / stroke	~ 0.035 l / stroke
Feed Container	0.4 L	With suction hose
Weight	~ 1.36 kg	~ 11 kg
HP Hose	0.3 m	3 m



## System Details

<b>Application Instructions</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 MF-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, Hand-1 and Hand-2</b></p> <ul style="list-style-type: none"> <li>• Clean all tools and application equipment with Sika® Injection Cleaner C1 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 ~ 1 litre of Sika® Injection Cleaner C1 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 pressure 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 the pump preservative (oil) up to the top edge of the suction valve.</li> </ul> <p><b>IMPORTANT NOTE:</b> Refer to Sika® Injection Cleaning systems Product Data Sheet.</p>
<b>Notes</b>	All technical data stated in this Product Data Sheet are based on 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.

## Health & Safety Information

<b>Protective Measures</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Local regulations as well as health and safety advice on packaging labels must be observed.</li> <li>• For further information refer to the Sika Material Safety Data Sheet which is available on <a href="http://www.sika.co.nz">www.sika.co.nz</a>, or on request.</li> <li>• If in doubt always follow the directions given on the pack or label.</li> </ul>
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## 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.

