

PRODUCT DATA SHEET

Sika® Injection Packers

Injection Packers

DESCRIPTION

Sika® Injection Packers are filling valves or ports and connection pieces between the injection equipment and the structure. One way valves (i.e. Zerk or button head fittings), are located on the top of the injection packer and connect to the injection equipment.

Mechanical Packers (Sika® Injection Packer MPS/MPR/MPC):

Mechanical packers are cylinder-shaped injection packers which are normally installed by screwing them into drill holes made for this purpose. When tightening the packers, a fabric-reinforced rubber sleeve is forced against the drill-hole sides so that the packers can withstand even the highest injection pressures in the drill hole. Additionally, the injection packers rubber sleeve fills any minor gaps between the drill-hole sides and the packer, so that no material can leak from the drill holes, even if these are not perfectly round.

Sika® Injection Packer, Type MPS, are easy-to-handle, cost-effective drill-hole packers for standard injection procedures.

Sika® Injection Packer, Type MPR, are suitable for a wide range of applications, because they can also be equipped with Zerk button head fittings for even higher pressures and flow rates (e.g. for curtain injection).

Sika® Injection Packer, Type MPC, are specially designed for injection with microfine cement binders. They are equipped with a special head fitting that can be re-used.

Surface packers (Sika® Injection Packer SP)

Surface Packers are filling valves or injection ports, which are installed directly on the crack, i.e. on the surface of the structure. The injection packer base has a supporting plate to ensure optimum adhesion. Sika® Injection Packer SP is designed for injection where the drilling of holes is not possible or not allowed.

Sika® Injection Packer SP is generally used for the injection of Sika® epoxy injection resins, which are themselves most commonly used for crack injection where additional structural strength and structural

bonding is required.

USES

Sika® Injection Packers serve as filling valves or ports and connection pieces between the injection equipment and the structure when sealing structures or repairing cracks by injection. They can be used for the injection of various materials.

CHARACTERISTICS / ADVANTAGES

- A full range of Sika® Injection Packers are available (Mechanical and Surface Packers)
- Designed to accommodate and withstand the relevant pressures and flow rates without leaking or 'jumping-off'

PRODUCT INFORMATION

Packaging

Shelf life

Storage conditions

Dimensions

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.

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

APPLICATION

Mechanical Packers:

Drill the Mechanical Packer holes as shown in the diagram in relation to the desired injection material penetration path. The Mechanical Packer hole diameter should be 1mm bigger than the Packer diameter.

The packer length should be selected so that the female zerk coupler or the slide coupling of the injection equipment can be easily fixed onto and removed from the packer. If the structure to be injected is old or of poor quality, then the packers must be placed deep into the structure to avoid further damage in the areas around the drill hole, which could be caused by the pressures exerted during the packer tightening process.

Surface Packers:

Install the Surface Packers as shown in the diagram. Seal around the Packer with Sikadur®- 31 CF; follow the instructions on the Sikadur®- 31 CF Product Data sheet carefully. During their installation, drive a steel nail through the Packer and into the crack, to prevent the injection canal from being blocked with adhesive, whilst bonding the packers on the surface. As soon as the adhesive has cured, remove the nail.

Sika Iraq (Sika Trading L.L.C.)

Building Trust, Basra

Tel: +96 477 303 74451

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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.

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