

## PRODUCT DATA SHEET

# Sika® Injection-222

Hydrophilic flexible polyurethane grout

## DESCRIPTION

Sika® Injection-222 is a single component flexible hydrophilic MDI based urethane injection grout. Sika® Injection-222 reacts with water to form a permanent flexible closed cell polyurethane seal.

## USES

Sika® Injection-222 may only be used by experienced professionals.

- Seal leaks in cracks
- Seal leaks in joints
- Stop active water flow
- Seal leaks in concrete, masonry and brickwork

## CHARACTERISTICS / ADVANTAGES

- Environmentally friendly
- Solvent and phthalate free
- Reacts with fresh and sea water
- Suitable for hydrostatic pressure environments
- permanently flexible
- single component- ready to use

## PRODUCT INFORMATION

<b>Composition</b>	MDI based urethane
<b>Packaging</b>	Sika® Injection-222- 20kg pail
<b>Shelf life</b>	12 months
<b>Storage conditions</b>	From date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10°C and +30°C.
<b>Colour</b>	yellow liquid
<b>Density</b>	1.10 (g/cm <sup>3</sup> )
<b>Viscosity</b>	150-400 mPa.s ( 21 °C)
<b>Tensile strength</b>	1.65MPa
<b>Elongation</b>	120%

# APPLICATION INFORMATION

**Mixing ratio** Sika® Injection-222 can be mixed with water before injection to increase the free rise ratio and to quicken the rise time. The water:resin ratio typically used is from 1:1 up to 1:4.

<b>Reaction time</b>			
<b>Ratio 1:1 (Water:Resin)</b>			
Temperature (°C)	Cream Time (sec)	Rise Time (sec)	Free Rise Ratio
10	1	240	3x
20	1	150	2.5x
25	1	120	2.5x
30	1	80	2.5x

  

<b>Ratio between Water:Resin at 25°C</b>			
Ratio	Cream Time (sec)	Rise Time (sec)	Free Rise Ratio
1:1	1	120	2.5x
1:2	1	130	3.5x
1:3	1	90	3.5x
1:4	1	80	3.5x

## 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.

### EQUIPMENT

Sika® Injection-222 is typically injected by use of a single component pump that is designed for high pressure use.

### MIXING

Sika® Injection-222 is ready to use from the pail. Make sure product is pre-conditioned before use to an optimum 20-25°C. If product has crystallisation due to low temperature storage, indirect heating and mixing using a power drill mixer paddle may be required before use.

### CLEANING OF EQUIPMENT

Please consult equipment/pump manufacturer for relative cleaning agent suitable for your individual equipment being used.

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## LOCAL RESTRICTIONS

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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