BUILDING TRUST

PRODUCT DATA SHEET

Sika® Injection-111

Hydrophobic semi flexible polyurethane injection grout

SIKA NZ APPROVED CONTRACTOR ONLY

AVAILABLE ON INDENT ORDER ONLY

DESCRIPTION

Sika® Injection-111 is a highly expansive hydrophobic MDI based urethane injection grout designed to be used with an accelerator. Sika® Injection-111 reacts when it comes into contact with water to create a hydrophobic foam.

USES

Sika® Injection-111 may only be used by experienced professionals.

- Stop active water flow
- Stop water ingress into structures
- Back grouting
- Seal leaks in concrete, masonry and brickwork
- Seal leaks in joints and cracks

CHARACTERISTICS / ADVANTAGES

- Environmentally friendly
- Solvent and phthalate free
- Reacts with fresh and sea water
- Reaction time can be adjusted with catalyst
- Suitable for hydrostatic pressure environments
- Semi-flexible

PRODUCT INFORMATION

Chemical Base	MDI based urethane
Packaging	Sika® Injection-111- 20kg pail Sika® Injection-111C- 2kg bottle (Catalyst)
Shelf Life	12 months
Storage Conditions	From date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.
Colour	brownish liquid
Density	1.15-1.20 (g/cm3)
Flash Point	> 150 °C
Viscosity	160-170 mPa.s (21 °C)

Compressive stiffness

Data based on 10% addition of Sika® Injection-111C (Catalyst)

Compression applied	Compression data (free rise)
2%	8.5KPa
5%	36KPa
10%	67KPa

Expansion

Maximum 2500%
*This varies depending on amount of Sika® Injection 111C Catalyst used and temperatures

APPLICATION INFORMATION

Mixing Ratio

Sika® Injection-111 requires the catalyst Sika® Injection-111C to create a reactive foam for injection.
Typical mix ratios vary from 2-10% of the Sika® Injection-111C depending on the reaction time required, please refer to the reaction table on this PDS for the information.

Reaction time

Reaction time at 5°C

Sika Injection-111C (Catalyst)	Start time	End time
2% addition	1min	5min 38 sec
6% addition	30 sec	3min 25 sec
10% addition	23 sec	2min 33 sec

Reaction time at 15°C

Sika Injection-111C (Catalyst)	Start time	End time
2% addition	51 sec	5min 6 sec
6% addition	23 sec	2min 54 sec
10% addition	18 sec	2min

Reaction time at 25°C

Sika Injection-111C (Catalyst)	Start time	End time
2% addition	35 sec	4min
6% addition	18 sec	2min 40 sec
10% addition	16 sec	1min 41 sec

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

EQUIPMENT

Sika® Injection-111 is typically injected by use of a single component pump that is designed for high pressure use.

MIXING

Sika® Injection-111 should be mixed with Sika® Injection-111C using a paddle drill mixer to create a uniform homogeneous liquid for a minimum of 20-30 seconds.

CLEANING OF TOOLS

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

LOCAL RESTRICTIONS

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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