

**Product Data Sheet**  
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Sika® Injection-29 New  
Type N and Type LP

# Sika® Injection-29 New Type N and Type LP

Swellable acrylic waterstopping injection resin

## Product Description

Sika® Injection-29 New Type N and Type LP are solvent-free two component injection resins which swell in contact with water. These products can be accelerated by adding a third component.

Type N (= Normal Potlife) is used for temperatures between +5°C and +30°C.  
Type LP (= Long Potlife) is used for temperatures between +20°C and +40°C.

## Uses

- Sika® Injection-29 New Type N and Type LP are used to permanently seal cracks against infiltration of water in concrete or masonry structures
- Sika® Injection-29 New Type N and Type LP are especially suited for injection of the Sika® Injectoflex-System

## Characteristics / Advantages

- Swell in contact with water
- Permanently watertight solution
- Easy to mix, 1 : 1 mixing ratio
- Two grades for different climatic conditions (Normal and Long Potlife)
- Help to avoid steel corrosion
- Tools and hoses can be cleaned with water
- Can be accelerated by using Sika® Accelerator-29 New Type N resp. Type LP

## Tests

### Approval / Standards

Chemical resistance against water according to the KTW recommendations (use in ambient water), ALGE (Germany), 30.04.04

## Product Data

### Form

#### Colours

Component A: rose-red liquid  
Component B: white liquid  
Accelerator: yellow-brown liquid  
Mixture: brownish liquid

#### Packaging

Standard package:  
10 kg unit (Comp A: 5 kg can, Comp B: 5 kg can)  
  
Accelerated version:  
Standard package + Accelerator-29 New Type N resp. Type LP (0.1 kg bottle)



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## Storage

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### Storage Conditions / Shelf-Life

12 months from date of production if stored in unopened, undamaged and sealed original package, protected from UV-light at temperatures between +5°C and +30°C.

Important note:

Component B is sensitive to frost and must be kept at temperatures  $\geq +5^\circ\text{C}$ .

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## Technical Data

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### Chemical Base

Solvent free monomeric / polymeric acrylates / modified vinyl-ester

### Density

Mixture (+20°C): ~ 1.08 kg/l

### Viscosity

Mixture (+20°C): ~ 90 mPas

### Change of Volume

~ 75% in tap water

Note: Swelling properties in salty water will be reduced and delayed.

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## System Information

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### Application Conditions / Limitations

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#### Substrate Temperature

*Type N, not accelerated:*

+10°C min. / +30°C max.

*Type N, accelerated:*

+5°C min. / +20°C max.

Material temperature:  $\geq +5^\circ\text{C}$

*Type LP:*

+20°C min. / +40°C max.

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#### Ambient Temperature

*Type N, not accelerated:*

+10°C min. / +30°C max.

*Type N, accelerated:*

+5°C min. / +20°C max.

Material temperature:  $\geq +5^\circ\text{C}$

*Type LP:*

+20°C min. / +40°C max.

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## Application Instructions

### Mixing

*Mixing ratio Type N and Type LP:*

Not accelerated, A : B = 1 : 1 (parts by volume)  
Accelerated version: refer to dosage table

*Dosage table Type N:*

Sika® Injection-29 New can be accelerated by adding Sika® Accelerator-29 New to Component A.

Temperature	Dosage Accelerator-29 New Type N (% by weight of mixture)	Pot life
+5 °C	1%	~ 75 minutes
	2%	~ 65 minutes
	3%	~ 50 minutes
+10 °C	1%	~ 35 minutes
	2%	~ 30 minutes
	3%	~ 25 minutes
+20 °C	1%	~ 20 minutes
	2%	~ 15 minutes
	3%	~ 10 minutes

Pot life is based on a mixture of 1 kg (A+B).

*Important note:*

*The reaction time of Sika® Injection-29 New depends on the temperature and the quantity of the mixture. Higher temperatures and bigger mixture volumes shorten the reaction time.*

### Application Method / Tools

*Standard packages, not accelerated:*

Shake or stir well the single components. Add both components in the correct proportion into a clean and dry mixing vessel and stir slowly (max. 250 rpm) for at least 3 minutes until the mixture is homogeneous. Use an electric stirrer, manual mixing is not sufficient.

*Accelerated versions:*

Shake or stir well the single components. Add component A and the accelerator (for dosage refer to the dosage table) into a clean and dry mixing vessel and stir slowly (max. 250 rpm) for at least 1 minute until the mixture is homogeneous. Add component B to this mixture and stir again slowly for at least 2 minutes until the mixture is homogeneous. Use an electric stirrer, manual mixing is not sufficient.

Sika® Injection-29 New Type N and Type LP can be applied with standard electric one-component injection pump, such as Aliva® AL-1200 or AL-1250.

In case of high temperature (ambient and/or material) or acceleration a two component pump has to be used because of the short potlife. All parts which are in contact with the material have to be made of stainless steel. Avoid contact with copper and copper containing alloy.

Sika® Injection-29 New Type N and Type LP react with Thinner C. Therefore all tools and application equipment which have been cleaned with Thinner C have to be flushed with water prior to injection.

Sika® Injection-29 New Type N and Type LP react in contact with moisture on the skin. To avoid this close the packaging immediately after use.

### Cleaning of Tools

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.

<b>Potlife</b>	<i>Type N, not accelerated</i>			
		+10°C	+20°C	+30°C
	1 kg mixture (A+B)	~ 40 minutes	~ 25 minutes	~ 8 minutes
	<i>Type LP, not accelerated</i>			
		+20°C	+30°C	+40°C
1 kg mixture (A+B)	~ 30 minutes	~ 20 minutes	~ 4 minutes	
<b>Notes on Application / Limitations</b>	In case of strongly water infiltration, pre-sealing with Sika® Injection-20 is necessary.			
<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.			
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