

Sika® Injection-29 New Type N and Type LP (VP)

New Formulation with New Mixing Ratio
Swellable Injection Resin

Product Description	Sika® Injection-29 New Type N and Type LP (VP) 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. Suitable for use in hot and tropical conditions.
Uses	Sika® Injection-29 New Type N and Type LP (VP) are used to permanently seal cracks against infiltration of water in concrete or masonry structures. Sika® Injection-29 New Type N and Type LP (VP) are especially suited for injection of the Sika® Injectoflex-System.
Advantages	<ul style="list-style-type: none">■ 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 and Type LP
Approval/Standards	Chemical resistance against water according to the KTW recommendations (use in ambient water), ALGE (Germany), 30.04.04
Product Data	
Form	Solvent free monomeric / polymeric acrylates / modified vinyl-ester
Colours	Component A: rose-red liquid Component B: white liquid Accelerator: yellow-brown liquid Mixture: brownish liquid
Packaging	<i>Standard package:</i> 10 kg unit (Comp A: 5 kg can, Comp B: 5 kg can) <i>Accelerated version:</i> Standard package + Accelerator-29 New Type N resp. Type LP (0.1 kg bottle)
Storage Condition	Store in original sealed containers in a cool and dry environment between 5°C and 30°C away from direct sunlight.



Shelf life 12 months from production date if stored in original, unopened packaging.

Technical Data

Density (at 20°C) Approximately 1.08 kg/lit mixed

Viscosity (at 20°C) Approximately 90mPas mixed

Volume change Approximately 75% in tap water
Note: Swelling properties in salty water will be reduced and delayed

Application substrate temperature Type N, not accelerated: +10°C min. / +30°C max
Type N, accelerated: +5°C min. / +20°C max.
Material temperature: ≥ +5°C
Type LP: +20°C min. / +40°C max.

Application ambient temperature Type N, not accelerated: +10°C min. / +30°C max.
Type N, accelerated: +5°C min. / +20°C max.
Material temperature: ≥ +5°C
Type LP: +20°C min. / +40°C max.

Application Details

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 (VP) can be accelerated by adding Sika® Accelerator-29 New (VP) to Component A.

Temperature	Dosage Accelerator-29 New Type N (VP) (% 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 (VP) 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 (VP) 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 (VP) react with Sika® Colma-Cleaner. Therefore all tools and application equipment which have been cleaned with Sika® Colma-Cleaner have to be flushed with water prior to injection.

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

Pot Life

Type N, not accelerated

	+10°C	+20°C	+30°C
1 kg mixture (A+B)	~ 40 minutes	~ 25 minutes	~ 8 minutes

Type LP, not accelerated

	+20°C	+30°C	+40°C
1 kg mixture (A+B)	~ 30 minutes	~ 20 minutes	~ 4 minutes

Cleaning of Tools

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

Remarks

In case of strong water infiltration, pre-sealing with Sika Injection-20 or Sika Injection 60 is necessary.

Notes

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.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related 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 should 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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