

Sika® Injection-521

Organic silicate resin

Product Description Sika® Injection-521 is a flexible, non-foaming, non-flammable resin based on silicate with short reaction times.

Uses Sika® Injection-521 is used for solidification and stabilization of loose rock crevices, cavities and unstable mountains in the mining and tunnelling, and is also suitable for sealing water-bearing cracks and for bonding anchor

Characteristics / Advantages

- high mechanical strength
- does not absorb water, does not mix with water
- also hardens on contact with water without foaming
- fast response time
- slightly flexible
- non-flammable
- very good adhesion even on damp surfaces
- easy application due to volume ratio 1:1
- excellent penetration
- low initial viscosity

Product Data

Colour
Comp. A: colour-less
Comp. B: brown

Packaging
Comp. A: 28 kg
Comp. B: 21 kg

Storage

Storage Conditions/Shelf Life Sika® Injection-511 when kept dry and stored between 10 and 30°C, in original container has a shelf life of approximately 6 months.

Technical Data

Chemical Base Injection resin based on silicate

Spec. density
Comp. A: approximately 1.48 kg/l (20°C)
Comp. B: approximately 1.10 kg/l (20°C)

Dyn. viscosity Mixed approx. 180 mPas (20°C)

Processing information

Processing temperature 10 - 30°C



Reaction time	Approx. 40-60 sec. (depending on the temperature), final cure approx. 20 min (depending on the temperature)
Mixing ratio A B	Comp. A : Comp. B = 1:1 by volume
Mix	Both components are mixing of a two (2) component injection pump, directly sourced from the original containers and mixed by a static mixer homogeneously.
Processing	<p>Sika® Injection-521 is processed due to the short reaction time with a two (2) component injection pump, mixing ratio of 1:1, only. The injection takes about lances or packer with a sufficiently large flow opening.</p> <p>After a homogeneous mixing forms an emulsion that does not absorb water. The low initial viscosity increases rapidly, reaches a material that is no longer free-flowing state and cured without foam.</p>
Cleaning equipment	Cleaning must take place within the pot life with Sika Thinner C. The rinsing of the injection pump is either via a separate rinse pump or the pumping of the sole component A, depending on the machine. Cured or reacted material can only be removed mechanically.
Value Base	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.
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.
Health and Safety Information	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.
Important Notification	<p>The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.</p> <p>PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.</p>



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