BUILDING TRUST

PRODUCT DATA SHEET

Sika® Injection-310

1-COMPONENT POWDER BASED ACRYLATE INJECTION RESIN

PRODUCT DESCRIPTION

Sika® Injection-310 is a polyacrylic, 1-component, powder based injection resin which is formulated to contain all the active parts in one powder. The all in one, ready to use powder, only requires mixing with water. After the addition of water the chemical reaction is activated producing a very low viscosity resin which cures to form a tough-elastic gel.

USES

Sika® Injection-310 installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

- Repair by injection of damaged waterproofing membranes (single and double layer system)
- Sealing of construction joints via injection hoses, i.e. SikaFuko® System
- Injection of construction and movement expansion joints

CHARACTERISTICS / ADVANTAGES

- 1-part, all in one product
- Activation by just adding water
- Easy to mix compared to multicomponent resins
- Easy to apply with 1-component pump
- Very low viscosity
- Equipment easy to clean, only water required
- When cured, insoluble in water and hydrocarbons

APPROVALS / STANDARDS

- Compatibility test EN 12637-3, EN 1504-5, Sika® Injection-310, MPA Braunschweig, Test report No. 1201/569/18b
- Density, Infrared Spectrum, Water Tightness, Workability tests EN 1504-5, Sika® Injection-310, MPA Braunschweig, Test report 1201/569/18a
- Fire Behaviour Classification DIN EN 13501-1:2010-01, Sika® Injection-310, MPA Braunschweig, Test report K-2300/985/18-MPA BS
- Water Tightness DIN EN 1504-5, Sika® Injection-310, iBMB MPA, Test report No. 1202/302/19

PRODUCT INFORMATION

Chemical Base	1-part powdered acrylate	
Packaging	**Pail**	**Box**
	4 × 5 kg sealed bags in 30 litre container	5 × 5 kg in box
	18 containers on pallet (360 kg)	24 boxes on pallet (600 kg)
	Refer to current price list for packaging variations.	
Colour	White	
Shelf Life	12 months from date of production	
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +0 °C and +30 °C. Always refer to packaging.	

Density	~1,12 g/cm³ (mixed material +20 °C)	(EN ISO 2811-1)
Viscosity	~15 mPa·s (Mixed material +20 °C)	(EN ISO 3219)

TECHNICAL INFORMATION

Chemical Resistance	Contact Sika Technical Services for specific information regarding resistance to hydrocarbons, alkalis or other chemicals.

APPLICATION INFORMATION

Mixing Ratio	5 kg bag of Sika® Injection-310 activated with 7,5 L or 10 L of water
Yield	~11,3 L or 13,8 L of injectable resin per 5 kg bag
Ambient Air Temperature	+5 °C min./ +40 °C max.
Substrate Temperature	+5 °C min./ +40 °C max.

Gel time

Temperature	Minutes
+10 °C	~180
+15 °C	~100
+23 °C	~40
+30 °C	~23
+35 °C	~19

Values based on 7,5 L of water.
Note: Gel time is laboratory tested with 100 ml samples with preconditioned parts according to the temperature and may vary from site conditions. Check gel time according to site conditions before use.

APPLICATION INSTRUCTIONS

MIXING

Mixing sequence

1. Pour 7,5 L or 10 L of water into a clean container.
2. Pour 5 kg of Sika® Injection-310 powder slowly into the water while stirring. Stir with an electric single mixer with a mixing paddle (e.g. Colomix DLX 90S).
3. Mix at high speed for a minimum of 3 minutes ensuring all the powder and water is mixed thoroughly.

APPLICATION METHOD / TOOLS

Pour the fully mixed liquid into the hopper of a suitable 1-Component pump and inject.

CLEANING OF TOOLS

Clean all tools and application equipment with water.

LIMITATIONS

- Sika® Injection-310 activated with 10 L of water is suitable for injections into cracks and construction joints at >20 °C and into membrane compartment systems.
- For higher requirements such as expansion joints or area injections, activation with 7,5 L water is recommended.
- In hot climates, to extend the gel time, use cold water for activation.
- In cold climates, to shorten the gel time, use hot water for activation or use Sika® Injection-300 Boost
- Before using the product, check the pot life according to local site conditions. If pot life is exceeded the product can no longer be pumped/injected.
- Be aware that pot life (workability after mixing) is shorter than gel time.

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

LEGAL NOTES

The information, and, in particular, the recommenda-

tions 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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