



## PRODUCT DATA SHEET

# Sika® Injection-310 US

### 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.

#### WHERE TO USE

Sika® Injection-310 US may only be used by experienced professionals.

- 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

#### PRODUCT INFORMATION

CSC MasterFormat®	03 64 00   INJECTION GROUTING
Composition / Manufacturing	1-part powdered acrylate
Packaging	4 x 5kg (11.02 lbs) sealed bags per box
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(+32 °F) and 30°C(+86 °F). Always refer to packaging.
Colour	White
Density	Density ~1.12 g/cm <sup>3</sup> (mixed material +20 °C/ 68 °F)

## Viscosity

Initially after mixing before reaction begins approximately 15 mPa·s. Mixed material 20°C(+68 °F)

## 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 US activated with 7.5L (2 Gallons) of water

### Yield

~11.3L (3gallons) of injectable resin per 5 kg bag

### Gel time

#### Without Accelerator

Temperature

Approximate time from initial viscosity Increase to final gelation

10°C (50°F)

60 - 90 minutes

16°C (60°F)

45 - 62 minutes

20°C(68°F)

30 - 37 minutes

23°C (74°F)

24 - 31 minutes

30°C (86°F)

12 - 16 minutes

40°C (104°F)

8 - 10 minutes

#### Low Temperature Applications With SI 215 Accelerator

Acc. 215 (mL)

Approximate time from initial viscosity Increase to final gelation

0mL

3hr 30min - 4hr 30min

80mL

1hr 10min - 2hrs

100mL

50min - 1hr 30min

110mL

50min - 1hr 6min

120mL

30min - 1hr

140mL

25min - 50min

Values based on 7.5 L (2 Gal) 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.

For the low temperature application temperature of the water used in the laboratory was 0 °C (32 °F) and the ambient temperature range was +2 °C – +4 °C (37 °F – 39 °F)

## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

## LIMITATIONS

- Sika® Injection-310 US activated with 7.5 L of water is suitable for injections into cracks, expansion joints, and construction joints at >20°C (68 °F) and into membrane compartment systems.
- 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® Inject 215 Accelerator.
- 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 total gel time.

## ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains

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physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### MIXING

Mixing sequence

1. Pour 7.5 L of water into a clean container.
2. Pour 5 kg of Sika® Injection-310 US 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.

### CLEAN UP

Clean all tools and application equipment with water.

## 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 exact product data and uses.

## 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 recommendations, or from any other advice offered.

The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

**Sika Canada Inc.**  
Head Office  
601, avenue Delmar  
Pointe-Claire, Quebec  
H9R 4A9  
1-800-933-SIKA  
[www.sika.ca](http://www.sika.ca)

**Other locations**  
Boisbriand (Quebec)  
Brantford; Cambridge;  
Sudbury; Toronto (Ontario)  
Edmonton (Alberta)  
Surrey (British Columbia)

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