

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.

USES

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

Chemical Base	1-part powdered acrylate
Packaging	4 x 5kg (11.02 lbs) sealed bags per box
Color	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 +32 °F (0°C) and +86 °F (30°C). Always refer to packaging.
Density	Density ~1.12 g/cm ³ (mixed material 68 °F/ +20 °C)
Viscosity	Initially after mixing before reaction begins approximately 15 mPa·s. Mixed

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 2 Gallons (7.5 L) of water

Coverage

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

Gel time

Without Accelerator

Temperature

Approximate time from initial viscosity Increase to final gelation

50°F (10°C)

60 - 90 minutes

60°F (16°C)

45 - 62 minutes

68°F (20°C)

30 - 37 minutes

74°F (23°C)

24 - 31 minutes

86°F (30°C)

12 - 16 minutes

104°F (40°C)

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 32 °F (0 °C) and the ambient temperature range was 37 °F – 39 °F (+2 °C – +4 °C).

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.

CLEANING OF TOOLS

Clean all tools and application equipment with water.

LIMITATIONS

- Sika® Injection-310 US activated with 7.5 L of water is suitable for injections into cracks, expansion joints, and construction joints at >68 °F (20°C) 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.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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