

IS 810

Polyurethane - Injection Foam

Product Description	Polyurethane - Injection Resin with low viscosity
Applications	<ul style="list-style-type: none"> • IS 810 is used as a water stopping injection grout (cut-off grout) for the temporary sealing of: • Cracks and voids, carrying pressing and non-pressing water • For permanent waterproofing, subsequent injection with IH 20, IH 20 NV, IH 81 or Inject 2060.
Properties/Advantages	<ul style="list-style-type: none"> • Suitable for potable water applications. • Volume increases 10 to 20 times. • Cures under presence of water • Fast reaction in contact with water. • High penetration

Technical and Chemical Data		Mixture of resin
	Viscosity at 20° C (68° F) (mixture of components):	500 mPas
	Density at 20° C (68° F):	Approx. 1.07 g/ml
	Color:	Brown
	Processing:	Injection with one-component pumps / packer injection
	Shelf life:	6 months

Packaging (approximate yield = 3 US Gallons)	Packing unit	11 kg	Pallet size
	Component A	10 kg	50 x 11 = 550 kg
	Component B (activator)	1 kg	

Storage	IS 810 shall be stored in closed containers at temperatures between 10° C and 30° C (50° F to 86° F) under dry conditions.
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Reaction Times	starting time after contact with water:	Approximately 15-30 seconds
	rise time after contact with water:	Approximately 50-60 seconds
	setting time after contact with water	Approximately 2-3 minutes
	Under exclusion of humidity, the workability time is theoretically unlimited. As this is impossible under site conditions, we recommend to activate only smaller quantities and to process these quickly. The rise time and rise height can be adjusted by changing the mixing ratio. If required, additional component B (activator) can be obtained separately. See data sheet for more information.	

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Mixing Instructions

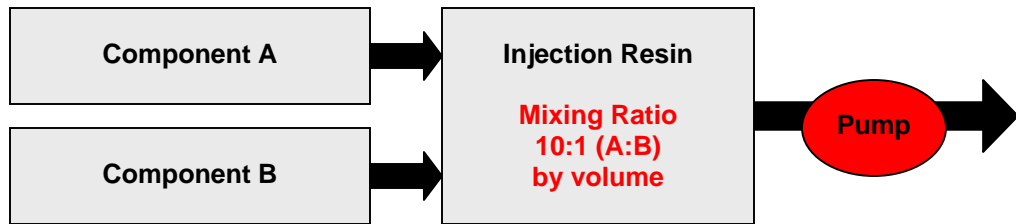


Figure 1: Mixing Instructions for processing in one-component pumps

IS 810 consists of 2 components, which are combined in a ratio of 10 parts A to 1 part B by weight. The components shall be thoroughly mixed using a slow agitator (approximately 200 rpm) for minimum of 2 minutes. It is essential to mix in material from the bottom and walls of the container. The mix is then re-potted and stirred for another 1 minute, until a uniform and streak-free consistency is obtained.

Injection/ Processing

- For water carrying cracks, it is first necessary to stop the water flow by injecting **IS 810**, to allow a subsequent and durable injection of the crack with IH 20, IH 20 NV, IH 81 or Inject 2060.
- Tools and injection pumps shall be immediately cleaned after use with a suitable cleaner – preferably our cleaning agent **IR 88**. Our **IP 88**, a protection and treatment agent for equipment, reduces the wear of pumps, hoses, etc. which have been used for processing polyurethane resins.

Safety Instructions

IS 810 is harmful when inhaled and irritating and sensitizing when in contact with the skin. During processing, follow the usual work hygienic measures: do not eat, drink or smoke while handling the products. Personal protective measures: wear safety goggles, rubber gloves and work clothes. Provide for good ventilation at work area. Further local work hygienic and person-related protective measures have to be considered. Do not allow unmixed components to enter watercourses and soil. In the cured state, **IS 810** is inert.

General Information

All details, in particular the suggestions for the processing and use of our products are based on our present knowledge and experiences at the time of the printing.

Depending on the specific application, in particular regarding substrates, processing and environmental conditions the results may differ. BBZ AG and BBZ USA guarantees the compliance of the technical properties as described in the technical data sheets within the shelf life of the products. Customers are advised to consult the latest technical data sheets, which are available on request.

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