

IH 81

Polyurethane – Injection Resin

Product Description	Polyurethane – Injection Resin
Applications	<p>IH 81 is used for durable waterproofing of:</p> <ul style="list-style-type: none"> • Construction joints with injection hoses. • Cracks, wet or dry, by means of injection packers • Cracks carrying pressing water, after pre-injection with IS 03 or IS 810.
Properties/Advantages	<ul style="list-style-type: none"> • Suitable for potable water applications. • Reaction time between approximately 120 and 180 minutes at 20° C (68° F) • Addition safety due to swelling effect of up to approx. 120% by weight. • Allows an elastic waterproofing of cracks and construction joints. • Low viscosity • Very good penetration

Technical and Chemical Data		Mixture of resin
	Viscosity at 20° C (68° F) (mixture of components):	250 mPas
	Density at 20° C (68° F):	Approx. 1.04 g/ml
	Shore A hardness	50-55
	Color:	Brown
	Processing:	Injection with one-component electrical pumps or hand pumps/ injection hoses/ drill packer.
	Shelf life:	12 months

Packaging (approximate yield = 2.5 US Gallons)	Packing unit	8.9 kg	20.7 kg
	Component A	4.3 kg	10.0 kg
	Component B	4.6 kg	10.7 kg
	Accelerator (optional)	1.0 kg	1.0 kg
	Pallet size		25 x 20.7 = 517.50

Storage	IH 81 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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Mixing Instructions

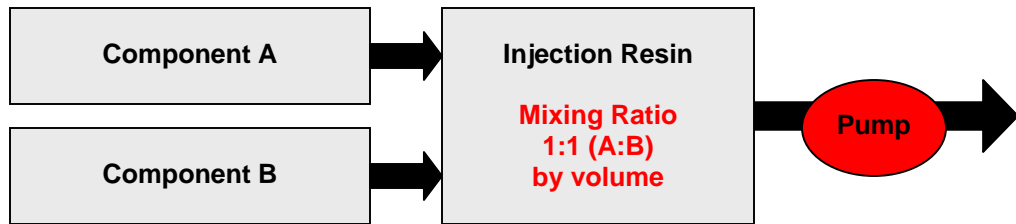


Figure 1: Mixing Instructions for processing in one-component pumps

IH 81 consists of 2 components, which can be mixed in a ratio of 1:1 parts by weight. The respective components are measured into a separate container and 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

- Due to its low viscosity, **IH 81** is very suitable for the injection of injection hoses and fine cracks.
- In case of cracks carrying pressing water, the water flow is to be stopped by a pre-injection with **IS 03** or **IS 810** first. This will allow a second injection with **IH 81** after the water flow has terminated.
- Temperature range for processing +8° to +30° (46° to 86°F)
- 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

IH 81 contains isocyanates. It 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 the 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, **IH 81** 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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