

DURO RAPID

Polyurethane – Water Stopping Resin

Product Description	Polyurethane water stopping resin with elastic structure for the waterproofing of building structures
Applications	<p>Duro Rapid is used for the permanent waterproofing of:</p> <ul style="list-style-type: none"> • Cracks and voids in concrete and rock against pressing water. • Leaking expansion joints (repair work) • Injection against pressing water in special foundation engineering works.
Properties/Advantages	<ul style="list-style-type: none"> • Elastomeric waterstop resin with high compressive and tensile strength. • Reacts within seconds with significantly increased viscosity, but without restriction of the flow of material. • No re-injection necessary • Bonding on dry and wet surfaces • Compatible with water

Technical and Chemical Data		Mixture of resin
	Viscosity at 20° C (68° F) (mixture of components):	Thixotropic
	Density at 20° C (68° F):	Approx. 1.1 g/ml
	ph-value at 20° C (68° F):	Approx. 3
	Color:	Light blue / light green
	Solids content:	72%
	Chloride content	Approx. 0.02%
	Processing:	Injection with two-component pumps / drill packer
	Shelf life:	12 months

Packaging (approximate yield = 5 US Gallons)	Packing unit	8.9 kg	20.7 kg
	Component A	10 kg	30 x 30 kg = 600 kg
	Component B	10 kg	

Storage	<p>Duro Rapid shall be stored in airtight closed original containers, as humidity will start a reaction which will lead to gelling/thickening of component A. All components of Duro Rapid shall be protected from freezing. All components have a shelf life of 12 months if storage recommendations are observed.</p>
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Mixing Instructions

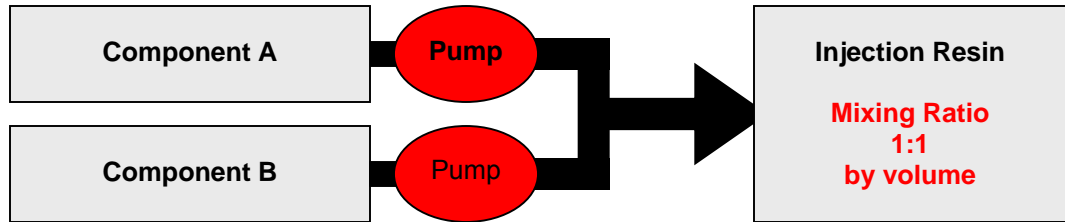


Figure 1: Mixing Instructions for processing in two-component pumps

The components of **Duro Rapid** react immediately after mixing. A significant increase in the viscosity is visible after 5-10 seconds as the mix gets thixotropic. The viscosity increase does not however lead to a restriction in the flow of material. After 2-3 minutes the reaction is completed.

Duro Rapid is supplied in a combi-pack, ready to use as a two-component injection material.

Injection/ Processing

- **Duro Rapid** is injected in the ratio of 1:1 by volume. Due to the very short reaction times, **Duro Rapid** is processed with two-component pumps only.
- The use of an injection pump with a static mixing head is required.
- Tools and injection pumps shall be immediately cleaned after use with a suitable cleaner - preferably our cleaning agent **PMR 90**.

Safety Instructions

Duro Rapid contains isocyanates. It is harmful when inhaled and irritating and sensitizing when in contact with the skin. During processing the usual work hygienic protective measures shall be adhered to: no eating, drinking or smoking.

Personal protective measures: wear safety goggles, rubber gloves and work clothes. Provide for a good ventilating at work. Local work hygienic and person-related protective measures should be considered. Do not allow unmixed components to enter watercourses and soil. In the cured state, **Duro Rapid** 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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