



INJECT 215

Duroseal – Acrylate Resin

Product Description	Acrylate resin with fast reaction and high flexibility for the waterproofing of building structures
Applications	<p>INJECT 215 is used for a durable waterproofing of:</p> <ul style="list-style-type: none"> ✓ Cracks and voids in concrete against pressing and non-pressing water, in particular where movements are expected. ✓ Leaking expansion joints (Repair work) ✓ Construction joints with single or re-injectable injection hoses ✓ Structures by area sealing and grout curtain injections
Properties / Advantages	<ul style="list-style-type: none"> ✓ Adjustable reaction time between 2 and 15 minutes ✓ Additional safety due to swelling effect of up to approx. 120 % by weight ✓ Flexible and solvent free acrylate resin ✓ Approved for potable water according to NSF ✓ Proof of safe environmental behaviour (ecological toxicity) ✓ Compatible with water ✓ Very good penetration ✓ Injection resin belongs to the group of hydrogels

Technical and Chemical Data		Mixture of resin
	Viscosity at 20 °C (68 °F) (mixture of components):	approx. 6 mPas
	Density at 20 °C (68 °F):	approx. 1,08 g/ml
	pH-value at 20 °C (68 °F):	approx. 10
	Colour:	Yellow
	Chloride content:	< 0,01 %
	Processing:	Injection with two component pumps via Injection hoses or drill packer
	Shelf life:	12 months

Packaging (Approximate yield = 8 US gallons)	Packing unit	41 lbs.	Pallet size
	Resin	2 x 2,0 gallons	30 x 41 lbs. = 1'230 lbs.
	Accelerator	2 x 26 fl. oz.	
	Hardener-Powder	2 x 14 oz.	
	Measuring cup 100 ml	1 piece	

Storage	<p>INJECT 215 shall be stored in closed containers at temperatures between 10 °C and 30 °C (50 °F to 86 °F) under dry conditions to avoid loss of reactivity. Protect from direct sunlight. All components have a shelf life of 12 months if storage recommendations are observed.</p>
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Mixing Instructions

for 4 gallons mixed resin

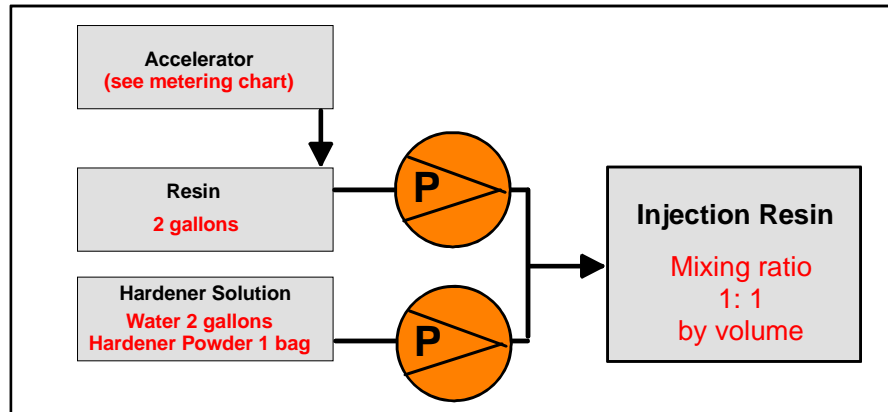


Figure 1: Mixing instructions for processing in two-component pumps

INJECT 215 consists of 3 components which can be mixed in dependence of the required reaction times:

1. 2 gallons of the resin (component A) are activated with 2 fl. oz. to 26 fl. oz. of accelerator. The reaction time – see metering chart – is adjusted by the quantity of accelerator used.
2. The hardener solution (component B) is produced by dissolving 1 bag (14 oz.) of hardener powder in 2 gallons of water.
3. For even shorter reaction times please contact us for technical advice.
4. The pre-mixed components as per point 1 and 2 above are processed with a two-component injection pump, having a static mixing unit in a mixing ratio of 1:1.

Reaction Times

Reaction time	Ambient Temperature								Quantity of accelerator in fl. oz. per 2 gallons of resin
	5°C 41°F	10°C 50°F	15°C 59°F	20°C 68°F	25°C 77°F	30°C 86°F	35°C 95°F	40°C 104°F	
2 min.						19	15 1/4	10 1/4	
3 min.			22 3/4	16 1/2	10 3/4	6 1/2	5 1/4	3 1/4	
4 min.	22 3/4	12 3/4	9 3/4	6 1/2	5 1/2	4	2		
5 min.	15 1/4	9	5 1/2	4 1/2	3 1/4	2 1/4			
10 min.	5 1/4	4	3	2					
15 min.	3 3/4	3							

Example for mixing:

Ambient Temperature **20 °C (68°F)**
Required Reaction Time **5 min.**

Accelerator quantity = 4 1/2 fl. oz.
Resin = 2 gallons } **component A**
Hardener Powder = 1 bag
Water = 2 gallons } **component B**



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Storage life of activated hardener solution

The hardener solution will keep its reactivity for approx. **24 hours**. For a re-use at a later time, mixing of a fresh hardener solution will be necessary. Extra hardener powder for this purpose is available separately. We therefore recommend activating only the required quantities for immediate processing.

Injection / Processing

- ✓ **INJECT 215** is injected with two-component injection pumps with a static mixing head in the proportions 1 : 1 by volume (e. g. Titan 2-K-Epic). It is absolutely required that the parts of the pump, which have material contact, are manufactured of stainless steel.
- ✓ **INJECT 215** will react in dependence of the used material quantity, the accelerator quantity and the ambient temperature. The data given in the chart overleaf are laboratory results, which may differ from actual results on site. We therefore recommend carrying out a manual test to determine the exact adjustments before injection work is commenced.
- ✓ **INJECT 215** is compatible with water, therefore re-injectable injection hoses can be cleaned by vacuum.
- ✓ Tools and injection pumps can be cleaned with water after use. Hardened material can be removed with our cleaner **DR 90**.

Swelling Rate

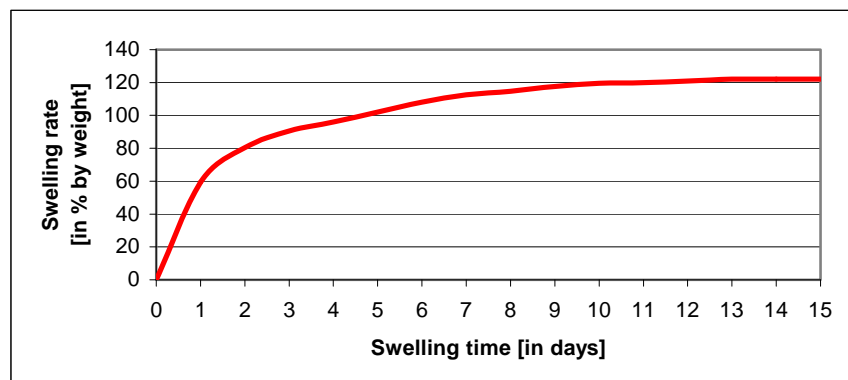


Figure 2: Swelling behaviour in demineralised water

INJECT 215 has a **medium to high swelling rate** and offers therefore additional safety, e.g. in case of movements/joint movements. The determination of the swelling rate depends on the contact medium, the temperature and reaction time.



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Safety Instructions

INJECT 215 does not contain poisonous ingredients. Acrylate monomers are irritating to eyes and skin. Sensitizing in case of skin contact is possible. During processing the usual work hygienic protective measures shall be adhered to: not eating, drinking or smoking.

Personal protective measures: Wear safety goggles, rubber gloves and work clothes. Provide for a good ventilating at work. Further local work hygienic and person-related protective measures have to be considered.

Do not allow unmixed components to enter watercourses and soil. In cured state, **INJECT 215** is physiological harmless.

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. Tricosal 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. Our current General Terms for Sales and Delivery are applicable.



BBZ USA, Inc.
3400 Tree Court Industrial Blvd.
St. Louis, MO 63122 USA
www.bbzusa.com

Tel: 800.325-9504
Fax: 800.551-5145



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