

# INJECT 2060

Duroseal – Acrylate Resin

<b>Product Description</b>	<b>Acrylate resin with fast reaction and high flexibility for the waterproofing of building structures</b>
<b>Applications</b>	<b>Inject 2060 is used for a durable waterproofing of:</b> <ul style="list-style-type: none"> <li>• Construction joints with single or re-injectable injection hoses.</li> <li>• Cracks and voids in concrete against non-pressing water.</li> <li>• Connecting joints to slurry walls, bored pile walls or sheet pile walls.</li> </ul>
<b>Properties/Advantages</b>	<ul style="list-style-type: none"> <li>• Adjustable reaction time between <b>20 and 60 minutes</b>.</li> <li>• Addition safety due to swelling effect of up to approx. <b>120% by weight</b>.</li> <li>• Flexible and solvent free acrylate resin.</li> <li>• Compatible with water.</li> <li>• Very good penetration</li> <li>• Injection resin belongs to the group of hydrogels</li> </ul>

Technical and Chemical Data	Mixture of resin	
	Viscosity at 20° C (68° F) (mixture of components):	30-40 mPas
Density at 20° C (68° F):	Approx. 1.07 g/ml	
pH-value at 20° C (68° F):	>8.5	
Color:	Yellow	
Solids content:	68%	
Chloride content:	<0.01%	
Processing:	Injection with one component pumps/ Injection hoses or drill packer.	
Shelf life:	12 months	

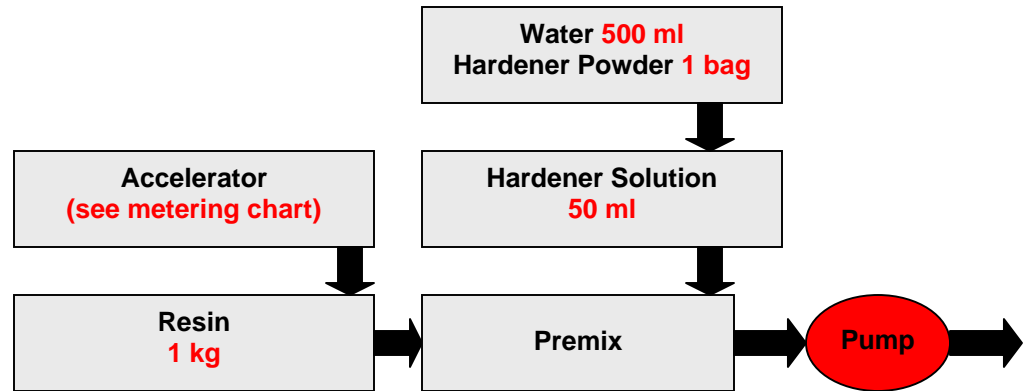
Packaging (approximate yield = 6 US Gallons)		22.066 kg	Pallet size
	Resin	2 x 10.0 kg	30 x 22.066 kg = 661.98 kg
	Accelerator	2 x 1.0 kg	
	Hardener-Powder	3 x 22 g	

<b>Storage</b>	<b>Inject 2060</b> 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.
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**Mixing Instructions**  
for mixing partial  
quantities of less  
than 10 kg



**Figure 1: Mixing Instructions for partial quantities of less than 10 kg**

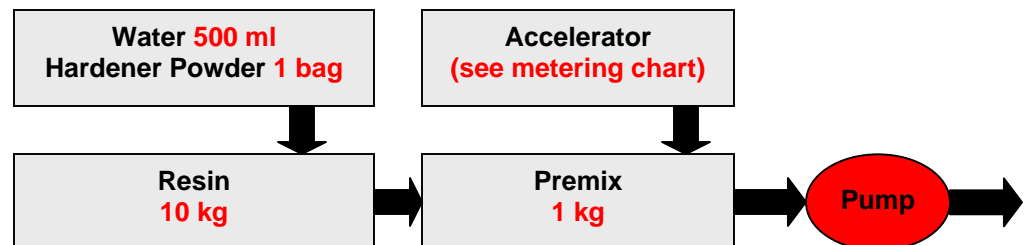
1. 1 liter of resin (component A) is filled in a mixing container.
2. Add the necessary quantity of accelerator, selected from the metering chart overleaf.
3. Dissolve one bag of hardener powder in 500 ml of water.
4. Add 50 ml of this hardener solution into the mixing container.
5. Thoroughly mix all components.

**Note for processing in one component pumps:**

Workability time (pot life) =

Reaction time (see metering chart) – (minus) 10 minutes

**Mixing Instructions**  
for mixing quantities  
of minimum 10 kg



**Figure 2: Mixing Instructions for quantities of minimum 10 kg**

1. Dissolve one bag of hardener powder in 500 ml of water. The hardener powder cannot be directly dissolved in the resin!
2. Mix the 500 ml of hardener solution (500 ml) and the 10 kg unit of resin.
3. Add a partial quantity into a mixing container.
4. Add the necessary quantity of accelerator, selected from the metering chart on the following page.
5. Thoroughly mix all components.

**Note for processing in one component pumps:**

Workability time (pot life) =

Reaction time (see metering chart) – (minus) 10 minutes

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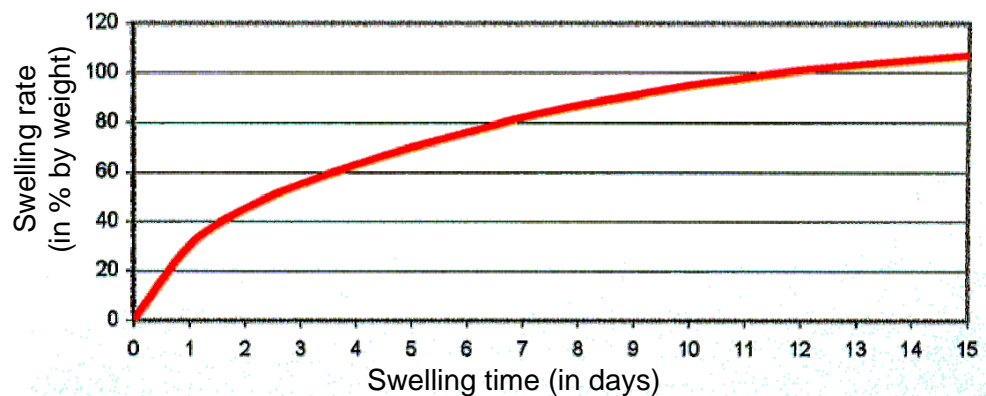
Reaction Time	Metering chart: Accelerator In ml	Ambient Temperature								Qty. of accelerator in ml per 1 kg mixed resin
		5° C 41°F	10°C 50°F	15°C 59°F	20°C 68°F	25°C 77°F	30°C 86°F	35°C 95°F	40°C 104°F	
Reaction Time	20 min.				77	68	50	42	32	
	30 min.		142	82	65	55	35	30	25	
	40 min.	120	105	72	55	45	30	25	22	
	50 min.	105	80	65	47	37	27	22	20	
	60 min.	95	75	62	42	32	25	20		

**Note** for processing in one component pumps:  
Workability time (pot life) =  
**Reaction time (see metering chart) – (minus) 10 minutes**

**Storage life of activated hardener solution**  
The hardener solution will keep its reactivity for approx. **24 hours**. For re-use at a later time, mixing of a fresh hardener solution will be necessary. We therefore recommend activating only the required quantities for immediate processing.

- Injection/ Processing**
- **Inject 2060** can be easily processed with one component pumps due to its long workability time of 20 to 60 minutes.
  - **Inject 2060** is compatible with water, therefore re-injectable injection hoses can be cleaned by vacuum.
  - **Inject 2060** 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.
  - Tools and injection pumps can be cleaned with water after use. Hardened material can be removed with our cleaner **DR 90**.

## Swelling Rate



**Figure 3: Swelling behavior in demineralized water**

**Inject 2060** has a medium to high swelling rate and therefore offers 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.

## Safety Instructions

**Inject 2060** does not contain poisonous ingredients. Acrylate monomers are irritating to the eyes and skin. Sensitizing in case of skin contact is possible. During processing the usual work hygienic protective measures shall be adhered to: do not eat, drink or smoke while handling the materials.

Personal protective measures: wear safety goggles, rubber gloves and work clothes. Provide for 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 2060** is physiologically 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. 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.

## Warranty

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