

# MonniCryl 60

## Three Component Acrylic Injection Resin

### Product Description

MonniCryl 60 is an elastic three component acrylic injection resin, especially designed for injection or re-injection hoses. The gel formation doesn't go suddenly as with other acrylic gels but the viscosity increases in linear way thus making it possible to control the re-injection process on the injection hoses.

MonniCryl 60 has an excellent adhesion to the surface and the cured products swells in water.

### Uses

MonniCryl 60 specifically developed for the following:

- ▶ Re-injection or injection hoses
- ▶ Curtain injections, etc.

### Advantage

- ▶ Outstanding adhesion concrete, cements, bricks, etc.
- ▶ Penetrates deep into fine cracks
- ▶ Good chemical resistance (like petroleum, mineral, vegetable oils and greases, etc)
- ▶ Does not contain toxic solvents
- ▶ Non flammable
- ▶ Reaction speed can be adjusted from a few seconds to several minutes
- ▶ Excellent swelling properties
- ▶ High water retention capacity
- ▶ Provides superior adhesion to most substrates

### Usage Instructions

In order to obtain the acrylic gel of MonniCryl 60 to work, the following steps should be followed;

Prepare SOLUTION 1 by mixing Acrylic Resin (Part A) with Catalyst (Part B). Mixing ratio should be 20 Part A : 1 Part B by weight.

Prepare SOLUTION 2 by diluting the Initiator (Part C) into water. Mix the above 2 solutions equally (1:1) by volume. (Setting Time to be adjusted as per below table.

Setting Time (min)	Version 1 catalyst (gm)	Version 2 catalyst (gm)
For 45-60	≤5	≤10
For 20-30	5-8	10-17
For 5 -15	8-30	17-40
Less than 5	>30	>40

All technical values are related to +20°C and 50% Relative Humidity.

All values are subject to 5-10 % tolerance  
Inject the mixed product into the injection hose with a two component manual, electric or pneumatic pump. Ensure that the machine parts that come into contact with the resin must be in stainless steel.

For re-injecting injection hoses, vacuum with water the injection hoses under low pressure within the reaction time.

### Cleaning

Clean the used tools with water immediately after completing the job

### Recommendations

- ▶ Never use water that contains a lot of minerals in preparation of Solution 2. These minerals can accelerate the reaction time

## Technical Data

### Version 1

Category	Typical Values
<b>Component A</b>	
Appearance	Purple-Pink Liquid
Density	1.12 g/ml
<b>Component B</b>	
Appearance	Clear Yellow Liquid
Density	1.11 g/ml
<b>Component C</b>	
Appearance	Powder
<b>Mixed Product Properties</b>	
Elongation at break	> 50%
Viscosity	< 50 cP
Corrosion Behavior	nil
Sensitivity to Wet-Dry Cycle	No change in expansion ratio
Water Tightness under Pressure	$\geq 2 \times 10^5$ Pa
Compatibility with Concrete	Passed
Swelling ratio at water storage at 20°C	Approx 100%
Application Temperature	1°C to 40°C

All technical values are related to +20°C and 50% Relative Humidity. All values are subject to 5-10 % tolerance

### Version 2

Category	Typical Values
Color	White
Mixed Density ( A+B)	1.02 kg/dm <sup>3</sup>
Mixed Density (with water)	1.04 kg/dm <sup>3</sup>
Viscosity ( A+B)	15mPA.s
Viscosity (with water)	3mPA.s
Elasticity	270%
Swelling ratio at water storage at 20°C	Approx 100%
Application Time at 20°C	2.5 to 10 minutes
Application Time at 10°C	3.75 to 40 minute
Application Temperature	+1°C to 40°C

All technical values are related to +20°C and 50% Relative Humidity. All values are subject to 5-10 % tolerance

## Legal disclaimer

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## Applicable Standards

- ▶ DIN 53479
- ▶ DIN 52455
- ▶ DIN ISO 3219
- ▶ EN 12637
- ▶ EN 14498

## Packaging

MonniCryl 60 is supplied as a three component kit.

Version 1	Version 2
Component A: 25 kg	Component A: 23.8 kg
Component B: 1.25 kg	Component B: 1.19kg
Component C: 60g	Component C: 500g

## Shelf Life & Storage

Keep the product in dry and covered shed with a temperature between +5°C and +25°C. In these conditions the product will have a shelf life of 6 months from the date of manufacturing in the original unopened packaging.

## Health & Safety

Wear gloves and goggles to avoid any contact with eyes and skin. In case of contact in the eyes and skin, wash abundantly with warm water and consult a doctor. Ensure adequate ventilation at working place. Absorb spilled resin with sand and sawdust then dispose according to local regulations.

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