

PURINJECT 1C FLEX

One component, solvent free, polyurethane injection resin ideally suitable for water cut-off in wet dynamic cracks and joints. Reaction with water yields a very flexible polyurethane foam. Injected with a one-component pump. Use with 6 to 10% catalyst.



▪ **How does PURINJECT 1C FLEX work?**

The reaction speed can be adapted easily by varying the accelerator or catalyst content from 6% to 10%. The more catalyst is added, the faster the reaction velocity.

The reaction with water yields a **flexible** polyurethane foam with closed cells

The end product, injected under pressure, neither shrinks nor swells. A good compression strength is obtained in very short time. Free expansion 800%. Best to inject the resin with a certain counter pressure.

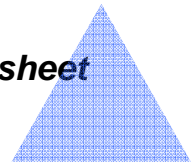
▪ **Operational data**

Shake well the catalyst. Mix the resin and the accelerator in a ratio of 6 % to 10 % in function of the desired reaction speed. Injection using packers and a 1 component pump. (manual or automatic).

Range of packers :



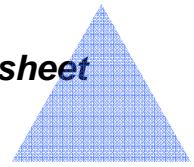
PURINJECT 1C FLEX is very hygroscopic and packed under dry atmosphere. Use opened containers as soon as possible or



recap under dry nitrogen.

Pumps should be cleaned with PURCLEAN, a cleaning product specially developed for cleaning of polyurethane injection pumps .

<ul style="list-style-type: none"> ▪ Technical data 	<p>PHYSICAL CHARACTERISTICS OF THE UNCURED POLYURETHANE PREPOLYMER</p> <ul style="list-style-type: none"> ▪ Colour yellow ▪ Relative density at 25°C 1,08 kg/dm³ ▪ Flashpoint > 150 ° C ▪ Viscosity at 25° C 400 mPa.s ▪ Shelflife at 20 °C 6 months <p>PHYSICAL CHARACTERISTICS OF THE CATALYST</p> <ul style="list-style-type: none"> ▪ Colour Transparant ▪ Relative density at 25°C 0,98kg/l ▪ Flashpoint > 150 ° C ▪ Viscosity at 25° C 8 mPa.s 												
<ul style="list-style-type: none"> ▪ Reaction time 	<table border="1"> <thead> <tr> <th>Quantity of catalyst(%)</th> <th>Reaction(sec)</th> <th>Polymerisation(sec)</th> </tr> </thead> <tbody> <tr> <td>6 %</td> <td>30</td> <td>115</td> </tr> <tr> <td>8 %</td> <td>25</td> <td>90</td> </tr> <tr> <td>10 %</td> <td>20</td> <td>75</td> </tr> </tbody> </table> <p>(Indication at 20 ° C)</p>	Quantity of catalyst(%)	Reaction(sec)	Polymerisation(sec)	6 %	30	115	8 %	25	90	10 %	20	75
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<ul style="list-style-type: none"> ▪ Packaging 	<p>Standard packaging: 25 kg resin and 2,5 litre catalyst</p> <p>Pallet: 500 or 600 kg resin and 50 or 60 litres of catalyst</p> <p>Can be delivered under private label</p>												
<ul style="list-style-type: none"> ▪ Conservation 	<p>To avoid problems, it is very important to understand that these materials are both temperature and moisture sensitive. Therefore, materials should be stored in an area with temperatures not exceeding 30°C or not lower than 10°C.</p> <p>All part used drums should be covered by nitrogen and re-sealed to prevent the ingress of moisture.</p>												



▪ **Health precautions**

Ordinary hygienic principles, such as washing the compounds from the hands before eating or smoking should be observed. Hands should be washed with a waterless cleaner followed by soap and water. Avoid breathing of vapours, prolonged contact with the skin, contact with open breaks in the skin, and ingestion. Use the PURINJECT 1C FLEX INJECTION SYSTEM with adequate ventilation. (Refer to the Purinject material Safety Data report).

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