

Keminject AC 200

Very elastic, 2 components acrylic based injection system

Description	<p>Keminject AC 200 is an extremely low viscosity, 2 components - controlled curing time injection system, used for sealing structures and substrates where more flexibility, and elasticity are required of the gel formation. In case of fluctuating water tables, the injection system is a more durable and less sensitive to dry/wet cycle.</p>	
Where to use	<p>Keminject AC 200 is used for:</p> <ul style="list-style-type: none"> • Sealing of cracks (from 0.05 mm up to 4 mm, depending on the strength of the counter pressure) • Curtain injection through slabs or brickwork in order to re-establish the waterproofing capabilities of the structure in case of fluctuating water tables • Injection of (re)injectable hoses • Horizontal barriers and ground stabilization • Soil consolidation and creation of horizontal barriers in case of fluctuating water tables • Waterproofing treatment of tunnel concrete segments • Swimming pool crack injection without discharging water inside • Permanent sealing of tunnel linings, shafts, and masonry against static ground water 	
Advantages	<ul style="list-style-type: none"> • Very elastic, and extremely low viscosity acrylic-based injection system that is water-expanding and reacts into an elastic, durable gel • Good chemical resistance against many acids, bases, solvents, and fuels (check chemical resistance list) • Non-flammable • Excellent adhesion on mineral building materials such as concrete, cement and brick • Adjustable/controlled gel time between 4 and 7 minutes at 20 °C • High water retention capacity: when the injected cracks dry out due to temperature or ground water level fluctuations the gel will not crack easily • The cured gel has excellent durability in wet-dry cycles • Environmentally preferable – non-toxic, contains no solvents, harmless in contact with ground water 	
Properties		
Color	White liquid	
Viscosity (20 °C)	2.5 mPa.s	EOS8497/2021
Pot life	5 minutes	
Final curing	10 minutes	
Elongation at Break (hardened)	+200%	
Water absorption	≤30%	
Water permeability	Up to 8 bars	
Gel time controlling	4 – 27 minutes at 20 °C	
Working temperature	5 °C – 40 °C	

Surface Preparation	<ul style="list-style-type: none"> • Check the quality of the substrate, injection leads to increase pressure on the substrate, so the substrate needs to be of sufficient strength • Determine the packers according to the injection technique, substrate dimensions and type of pump • According to the selected packer and injection technique, the holes in the substrate need to be drilled • Tighten the packers well to make sure the injected pressure is absorbed • The distance and pattern of the packers/bore holes depend on the substrate structure and the injection technique • Please consult Prokem technical office for more information or the specific application manuals of the injection techniques
Mixing	<ul style="list-style-type: none"> • Create two different mixtures with the Keminject AC 200 components in separate plastic buckets • When mixing the components, you should always use a wooden spatula • Mixture A: AI + AII 20:1 kg Keminject AC 200 • Mixture B: BI + BII 20:0.3 kg Keminject AC 200 • Depending on the ambient and structure temperature, the reaction times will vary • The higher the temperature, the quicker the reaction time • Consult Prokem's technical team for adjusting reaction timing
Application	<ul style="list-style-type: none"> • Always use a 2-components stainless steel pump for acrylic injection resins • The 2 mixtures are mixed to a homogeneous mixture in the mixing head of the pump and inject in a 1-to-1 volume ratio • We always advise to do an on-site trial in plastic cups to determine the reaction speed of the material • The selected injection pressure is as low as possible • Start at the lowest point and increase until you see the resin flowing. Injection with low pressure ensures a deep penetration of the resin and complete sealing of the structure • Start injecting at the lowest point in case of a vertical application and at the widest point for a horizontal application • Open the valve of the gun, hold the pressure, and inject until the resin appears in the next packer • Stop pumping and proceed to the next packers • To make sure the material is penetrated in the full structure, opening and closing the valve and letting the material flow, can be advised. Continue the process until the whole structure is sealed
Packaging	<ul style="list-style-type: none"> • AI: 20 Kg plastic canister • BI: 20 Kg plastic canister • AII: 1 Kg plastic bottle • BII: 0.3 Kg plastic bag
Shelf Life & Storage	<p>Keminject AC 200 has a shelf life of 12 months in the original, unopened, undamaged packaging, and in a dry condition between 15 °C – 25 °C</p>
Cleaning	<ul style="list-style-type: none"> • As long as the acrylic components are liquid, the pump can be rinsed with water • We recommend to flush the pump with water every time you stop the injection for more than 15 min • Packers can be removed and the boreholes can be sealing with a fast-setting mortar

Health and Safety

- Confined area must be well ventilated and no naked flame allow
 - Contact with the skin should be avoided as certain sensitive skins may be attached by contact with the resin occurs, the skin should be washed immediately with soap and water-not solvent
 - Use goggles- gloves and a breathing mask when applying
 - Eye splashes are to be washed with plenty of water
- If ingested seek medical advice

Additional Information

PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure

PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction

PROKEM reserves the right to change the properties of its products

All orders are accepted subject to our current term of sale & delivery

Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request

PROKEM extends technical services to include after-sales support to assist users in the proper handling of our products
