Quality Needs Quality

Keminject AC Flex

High Flexible, 2 components acrylic based injection system

Description	**Keminject AC Flex** is an extremely elastic, low viscosity, 2 components - controlled curing time injection system, for permanent water sealing and joints repair, the material can compensate for movement cracks while retains its excellent swelling property in presence of water, even in case of fluctuating water tables and less sensitive to dry and wet cycle.
Where to use	**Keminject AC Flex** is used for: • Curtain injection beneath slabs or brickwork in order to re-establish the waterproofing capabilities of the structure in case of fluctuating water tables • Permanent water sealing of tunnel concrete segments • Swimming pool crack/joint injection without discharging water inside • Permanent sealing of tunnel linings, shafts, and masonry against static ground water • Expansion joints waterproofing injection • Construction joints waterproofing injection • Stopping of running water seepage through cracks
Advantages	• High flexible, and low viscosity compact acrylic- resin based injection system • Very low viscosity helps in deep penetration of the product into very fine cracks • Can accommodate structural and ground movements • Adjustable/controlled gel time between 1 and 4 minutes at 20 °C • Excellent adhesion on mineral building materials such as concrete, cement and brick, even on damp or wet surfaces • Swelling-fitted filling of cracks and fissures • Re-swells upon exposure to moisture after dry periods, swells up to 100% of its initial volume • Environmentally preferable – non-toxic, contains no solvent, harmless in contact with ground water • Self-heals even after dry periods

Properties

Color	White liquid	
Viscosity (20 °C)	4.2 mPa.s	EOS8497/2021
Pot life	27 seconds	
Final curing	3 minutes	
Elongation at Break (hardened)	+700%	
Water absorption	≤35%	
Water permeability	Up to 3 bars	
Gel time controlling	1 – 4 minutes at 20 °C	
Working temperature	5 °C – 40 °C	

Surface Preparation	• 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	• Create two different mixtures with the **Keminject AC Flex** components in separate plastic buckets • When mixing the components, you should always use a wooden spatula • Mixture A: AI + AII 20:0.5 kg **Keminject AC Flex** • Mixture B: BI + BII 20:1 kg **Keminject AC Flex** • 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	• 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	• AI: 20 Kg plastic canister • AII: 0.5 Kg plastic bottle • BI: 20 Kg plastic canister • BII: 1 Kg plastic bag
Shelf Life & Storage	**Keminject AC Flex** has a shelf life of 12 months in the original, unopened, undamaged packaging, and in a dry condition between 15 °C – 25 °C
Cleaning	• 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