



Product Overview

It is a two-component, low-viscosity polyurethane crack injection resin.



Application Domains

- It is employed to fortify static cracks in reinforced concrete structures, stone, and solid bricks.
- In the process of filling tie rod holes.
- For injection applications in porous reinforced concrete structures located behind retaining walls in instances of water leakage.
- In anchoring activities.



Technical Specifications

Colour	Clear, uncolored
Intensity	$1.02 \pm 0.05 \text{ gr/cm}^3$ (A+B / 23 °C)
Compressive Strength	$>70 \text{ N/mm}^2$ DIN 53454
Bending Strength	35 N/mm^2 DIN 53452
Modulus of Elasticity	3000 N/mm^2
Container Living	30-35 minutes at 23°C
Application Temperature	Min +5 °C

The information presented in this technical data sheet is derived from experimental results. The responsibility for the proper application of our original product rests with the user. Our company is solely accountable for the product's quality. This data sheet supersedes the information provided in the previous version. Our company reserves the right to amend any information contained within this data sheet.



Advantages

- It is clear.
- Owing to its low viscosity, it exhibits an exceptionally high diffusion rate into fissures.
- It does not result in volume loss during injection.
- It is applicable to moist concrete.
- It exhibits exceptional adhesion to concrete and steel surfaces.
- It exhibits elevated compressive and tensile strength values upon the completion of the curing process.
- It possesses a highly adaptable structure that is appropriate for all weather conditions.
- It safeguards the concrete structure and reinforcement against the detrimental effects of water and moisture.



Surface Preparation

Mechanical surface preparation is essential. The resulting dust layer must be removed using industrial vacuum cleaners, and the surface to be treated must be sound, dry, and clean. Application is permissible on damp surfaces. The surface tensile strength should be 1.5 N/mm^2 , the moisture content 4%, and the surface temperature +8°C. The success of the application is contingent upon proper surface preparation and the appropriate use of the material.



Mixture

CLASS PUX-770 is a two-component product that should be stored at room temperature for approximately 24 hours prior to application. Components A and B must be combined using a low-speed mixer (below 400 rpm) with an appropriate attachment until a homogeneous consistency is attained. To prevent mixing errors, it is advisable to transfer the mixture to a clean container and mix briefly. After allowing the prepared mixture to rest for a short period to release air bubbles, it is ready for application.



Application Details

The cracks requiring treatment must be dry. Application may be performed manually or with an electric motor-driven injection machine. The prepared mixture is transferred to the injection pump and injected into the crack using injection dowels. The injection process should proceed from bottom to top, ensuring that the injection resin does not escape from the visible front surface of the crack. This process should continue until the pressure on the manometer stabilizes, with particular attention to ensuring that the resin fully penetrates even the finest hairline cracks. In specific instances, such as wide cracks in the ground, application may be conducted by pouring. For horizontal applications, the crack opening should first be widened in a V shape and cleaned with oil-free, dry compressed air. Subsequently, the crack should be filled by pouring CLASS PUX-770. The pouring process should be sustained at intervals until the crack is completely filled. If the base of the cracks is open, they should be sealed with structural repair mortars possessing suitable properties.



Consumption

Consumption varies based on the application method. It is advisable to perform a test to assess consumption in the application area (~1.1 kg).



PACKAGING

27.5 kg (A: 25 + B: 2.5) contained in tin buckets



Shelf life

It must be safeguarded against unfavorable weather conditions. It should be kept in a dry, cool, and sealed environment (between +10 °C and +25 °C). Once opened and mixed, the product should be consumed promptly. In its unopened packaging, it has a shelf life of 12 months when stored in a dry location at a minimum temperature of +5 °C.



Attention

- In applications conducted in enclosed spaces, the environment must be adequately ventilated.
- In cold weather, packaging should be maintained at a minimum temperature of +15°C for no less than 24 hours before application.
- Following application, the surface must be safeguarded against water, rain, dew, snow, hail, frost, and comparable weather conditions until it is entirely dry.
- Avoid using open flames and refrain from smoking during application.
- Don appropriate gloves, goggles, and protective attire.
- In the event of skin contact, cleanse thoroughly with soap and ample water.
- Do not ingest, do not utilize empty packaging for food storage, and do not dispose of in fire.
- For professional use exclusively. Keep out of children's reach.