

DRYINJECT 2000

HYDROEXPANSIVE INJECTABLE POLYURETHANE RESIN



PRODUCT DESCRIPTION

DRYKOS Dryinject 2000 is a one-component, hydro-expansive polyurethane resin, solvent-free, ideal for sealing small and large water leaks in concrete or brick constructions, through static cracks or voids to be filled.

FEATURE

In contact with water, DRYKOS Dryinject 2000 forms a semi-flexible, closed-cell polyurethane foam. The reaction speed can be easily programmed based on the amount of accelerator (Comp. B), ranging from 6% to 70% by weight of Comp. A. Adding a larger amount of accelerator (Comp. B) reduces the reaction time. Once expanded, the final product does not swell or shrink. Within a fairly short time, it achieves good resistance to pressure. The formation of CO₂, typical of the reaction, provides additional pressure, facilitating the penetration of the resin into cracks. In a free environment, the resin expands by 2000% (20 times its initial volume).

APPLICATION METHOD

DRYKOS Dryinject 2000 is packaged under dry nitrogen and is extremely sensitive to moisture. It is recommended to use the entire contents of the packages once opened to prevent moisture penetration. After thoroughly mixing the catalyst (Comp. B) until a uniform mixture is achieved, add it to the resin (Comp. A). The ratio of catalyst to resin should range from 6% to 70%, equivalent to 600 to 7000 grams of catalyst per 70 kilograms of resin. The specific ratio can be adjusted based on the desired reaction speed.

DRYKOS Dryinject 2000 can be effectively injected using a one-component pump, whether manual or automatic.

Note: Following proper construction practices ensures that, once the two components of DRYKOS Dryinject 2000 resin are mixed, the resulting compound is safe for use in structures that require waterproofing. It won't release any unwanted polymer particles into drinking water, ensuring safety and quality.

LIMITATIONS

The usage temperature ranges from +8°C to +35°C.

After completing the operations, always thoroughly clean the pump used with Nitro solvent and the specific lubricating detergent DRYKOS Pump Cleaner.

Always use gloves and protective goggles during preparation and application.

HEALTH AND SAFETY

The user is advised to consult the Safety Data Sheet of the product, containing chemical-physical and toxicological data, risk phases, and other information for safe transport, use, and disposal of the product and its packaging. It is also important not to disperse the product and its packaging into the environment.

DRYKOS Dryinject 2000 is packaged under dry nitrogen and is very sensitive to moisture, even ambient humidity. It is recommended to use a small amount at a time and carefully reseal the cans before storing them.

Ensure the secure fit of the injectors positioned on the substrates. Given the high injection pressures reached by the pumps, if the injectors are not securely and correctly positioned, there is a concrete risk that they may come out at high speed from their seat (posing a risk of injury to operators!). Carefully study the placement of the injectors near the masonry discontinuities to be injected. Poor positioning, too close to the crack to be filled, can cause the rupture of the support itself under the pressure of the pump.

Exercise extreme caution when using electric pumps, which can easily reach pressures of 200 bar, and therefore, cause unwanted breaks in the concrete and masonry supports subject to injections.

Remove the excess resin that leaks from the walls within a few hours of stopping the infiltrations. Delayed removal may be more difficult.

STORAGE

The components of DRYKOS Dryinject 2000 are quite stable if treated correctly. To avoid possible issues, it is important to remember that these materials are very sensitive to both temperature and humidity. Always store these products at a temperature between 30°C and 70°C.

Finish open barrels as soon as possible or repackage them, filled with nitrogen to prevent moisture penetration.

Clean the pump used with DRYKOS Pump Cleaner.

DRYKOS Dryinject 2000 has a shelf life of 12 months when stored according to the recommended instructions.

WARRANTY

If the product is found to be defective, Drykos' liability is limited to replacing the product itself. As Drykos has no control over the use of the product by the user, the latter must ensure that the product is suitable for the intended use, assuming all risks and responsibilities related to it.

PACKAGING

Resin: 25 kg barrels Accelerator (Catalyst): 2.3 L

TECHNICAL SPECIFICATIONS

Colour	Brown
Specific Gravity	1.15 kg/dm ³
Viscosity	90 mPa·s