

COOL BARRIER SLV INJ_N



Low viscosity injection resins

Product description

This is a two component amine cured solvent free, 100% solids by volume, Injection Type - low viscosity injection-liquids, based on high strength epoxy resins. Type N (= Normal Potlife) is used for substrate temperatures between +5°C and +30°C.

Typical use

As an injection resin with good adhesion to concrete, mortar, stone, steel and wood. COOL BARRIER SLV INJ, Type N is used to fill and seal voids and cracks in structures such as bridges and other civil engineering buildings, industrial and residential buildings, e.g. columns, beams, foundations, walls, floors and water retaining structures. It not only forms an effective barrier against water infiltration and corrosion promoting media, but it also structurally bonds the concrete sections together.

Main Characteristics

- Solvent-free
- Moisture tolerant
- Usable at low temperatures
- Normal Potlife
- Shrinkage free hardening
- High mechanical and adhesive strengths
- Hard but not brittle
- Low viscosity
- Injectable with single component pumps

Colours

Translucent to Yellowish

Typical Consumption / Yield

COOL BARRIER SLV INJ, Type N is equal to 1 l injection resin.

Surface preparation

Requirements: Sound, clean, free from oil and grease, old coatings and surface treatments etc. Pre-treatment for good bond: Concrete, mortar, stone should be thoroughly prepared by high pressure water jetting or mechanical means such as grinding, chiseling etc. Cracks must be cleaned to remove dust with compressed air.

Application methods

Cracks in horizontal slabs: Saturate a few times using a brush or gravity fill them by pouring mixed COOL BARRIER SLV INJ, Type N between two “dams” e.g. made from suitable sealant. Cracks penetrating slabs to their soffit should first be sealed on the underside, e.g. with epoxy mortar or a suitable cementitious mortar.

Cracks in vertical structures: Mixed COOL BARRIER SLV INJ, Type N can be injected under pressure into the cracks using a single component injection pump. Injection ports (packers) are set at approx. 25 cm intervals beside the crack and the crack between the injection ports (packers) sealed e.g. with epoxy adhesive to prevent injection resin to escape during the injection process. Vertical cracks should always be injected from the bottom upwards. As soon as injection resin oozes out of the next packer / injection port, the first one is sealed and the injection process continued from the next one. After completion of the injection process, the injection ports (packers) as well as the sealing material between the ports are removed.

Conditions during application

Substrate Temperature: +5°C min. / +30°C max.

Substrate Moisture Content: Dry or SSD - Saturated Surface Dry

Product mixing ratio/Time (Components Size of Containers)

COOL BARRIER SLV INJ Comp A - 2 lit drum

COOL BARRIER SLV INJ Comp B – 2 lit drum

Mixing ratio A : B = 2 : 1 parts by weight and by volume.

Prebatched packaging: Add all of part B to part A. Mix with an electric mixer at slow speed (max. 250 rpm) for at least 3 minutes. Avoid entraining air.

Bulk packaging: Add both parts in the correct proportion into a suitable clean, dry container and mix in the same way as for the prebatched units.

Cleaning solvent

Clean all tools and application equipment with Abolin Thinner No. 300 immediately after use. Hardened / cured material can only be mechanically removed.

Pot Life

Temperature	Normal Type (1 kg)
+5°C	~ 25 minutes
+10°C	~ 20 minutes
+23°C	~ 15 minutes
+30°C	~ 10 minutes
+40°C	-

Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Shelf life at 23 °C

COOL BARRIER SLV INJ Comp A - 12 month(s)

COOL BARRIER SLV INJ Comp B - 12 month(s)

Mechanical Properties

Compressive Strength: 45 N/mm² (after 7 days at +23°C)

Flexural Strength: 60 N/mm² (after 7 days at +23°C)

Tensile Strength: 35 N/mm² (after 7 days at +23°C)

Bond Strength to concrete: > 4 N/mm² (after 7 days at +23°C)

Caution

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Abolin's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible abolin representative for approval before commencing the work.

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

Disclaimer

The information in this document is given to the best of Abolin's knowledge, based on laboratory testing and practical experience. Abolin's products are considered as semi-finished goods and as such, products are often used under conditions beyond Abolin's control. Abolin cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Abolin reserves the right to change the given data without further notice.

Users should always consult Abolin for specific guidance on the general suitability of this product for their needs and specific application practices. If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

ABOLIN CO GREECE:

Email: abolin@abolinco.com,

Web: www.abolinco.com