

CAP POLYINJECTO-LV

LOW VISCOSITY FLEXIBLE POLYURETHANE BASED CRACK INJECTION SYSTEM

DESCRIPTION

CAP POLYINJECTO-LV is a two part solvent-free, low viscosity high tensile strength polyurethane based system designed to form a strong permanent bond and seal in cracks in dry, damp or wet concrete and masonry.

USES

- For injecting into cracks for, dry, damp or wet concrete or masonry. Especially as an underlay for poorly ventilated working areas.
- CAP POLYINJECTO-LV** is designed as a permanent solution to seal and bond cracks in concrete and masonry. Crack widths of between 0.2mm and 10mm can be treated depending on requirements.
- May be used to form bowl-shaped sealing layers around construction, since it adheres well to sand and concrete (wet or dry).

ADVANTAGES

- Does not attack bitumen, sealing materials and foils modified with Bitumen or **STYROPOR** and **PUR - Foam**.
- In underwater, **CAP POLYINJECTO-LV** provides very effective sealing, bonds with the above sealing materials and sealing foils.
- Low viscosity allows penetration into fine cracks.
- Good adhesion to dry/wet substrates.
- High tensile strength, withstands high hydrostatic pressure.
- Displaces water optimally.
- Formulated to use in hot climates.
- Flexible to withstand differential movement.

TYPICAL PROPERTIES

PROPERTIES	VALUES
Solid %	100
Potlif @ 25 ⁰ c (min)	30 to 45
Minimum temp. for hardening	0 ⁰ c
Hardness shore A	60 ₊₅
Tensile strength N/mm ²	2.5
Extensibility (%)	80

DIRECTIONS FOR USE

Surface Preparation:

Clean the surface and remove any dust, unsound or contaminated material, paint, grease, corrosion deposits or algae. The surface should preferably be prepared using high pressure water jetting or light abrasive blasting, followed by thorough washing to remove dust and remaining particles. Dirt alone may be removed with wire brush cleaning, detergent scrubbing or the use of an appropriate degreaser. The effectiveness of decontamination can be accessed by a pull-off test. Blow the cracks and treated surface with oil free air to ensure complete removal of all dust and loose particles. Ensure that the surfaces are blown dry.

FIXING INJECTION PACKERS

The Injection packers or injection nipples shall be inserted into pre drilled holes at intervals along the length of each crack. The distance between each packer will depend upon the width and depth of the crack. Spacing shall be close enough to ensure that the resin will penetrate along the crack to the next point of injection. The surface of the cracks between the packers shall be sealed with **CAPOXY GEL**. Both sides of any cracks which go all the way through a wall or slab shall be sealed in this way. **CAPOXY GEL** shall be allowed to cure for 8 hours at 35⁰C. At low ambient temperatures (5⁰C to 12⁰c) the curing time will be extended and the applicator shall ensure that the surface sealant has adequately cured prior to

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continuing. One of the injection hose shall be attached to the lowest packer on vertical cracks or to either end of the horizontal cracks

Method of Application:

- Thoroughly mix the entire Part A and Part B contents for 3-5 minutes preferably by slow speed drill. For part mixes mix 1 vol. of Part B with 3 vol. of Part A or as per the requirement of the client.
- 1. **CAP POLYINJECTO-LV** can be used:
 - a) With standard injection equipments with closed containers (pressure pots) capable of working at pressures up to 1 N/mm² (1 bar).
 - b) With plastic or foil lined cartridges using a hand operated skeleton cartridge gun at low pressures.
- 2. Following completion of the injection works the injection system shall be allowed to cure for 24 hours and shall be left undisturbed for this time.
- 3. **FOR FINISHING:** Remove any packers or nipples and make good any holes or void with **CAPOXY GEL** and allow to cure. **CAPOXY GEL** can be ground off with an angle grinder or softened with a blow lamp and peeled off. Do not allow to burn.

LIMITATIONS :

CAP POLYINJECTO-LV should not be used in the presence of running water

PACKAGING

CAP POLYINJECTO-LV: 2 kg, 21 kg pack

CAPOXY GEL : 1 kg, 3 kg pack.

CAP THINNER : 5 litre, 20 ltr.

PRECAUTIONS

CLEANING: Spillages should be absorbed with sandor earth etc. and disposed in accordance with local regulations.

STORAGE :

Store in dry conditions upto 10°-25°(. Part A and Part B are sensitive to moisture. For this reason the contents of container once opened should be used immediately. Shelf life is 1 year for part A and part B in tightly closed original container under dry conditions.

FIRE RESISTANCE

The product is non flammable but will burn in a fire. **CAP POLYINJECTO-LV** and **CAPOXY GEL** should be removed from tools, equipment and mixers with **CAP THINNER** immediately after use. Hardened material can only be removed mechanically

HEALTH AND SAFETY

CAP POLYINJECTO-LV should not come in contact with skin and eyes or be swallowed. Avoid prolonged inhalation of the vapours. Some people are sensitive to isocyanates, therefore, protective gloves, goggles and barrier cream should be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus should be used. If mixed resin comes in contact with skin, it should be removed with a resin removing cream followed by washing with soap and water. Should accidental eye contamination occur with any of the above products, wash well with plenty of clean water and seek medical advice immediately. If swallowed, seek medical attention immediately. **DO NOT INDUCE VOMITING.** Refer our safety data sheets before using this material.

TECHNICAL SERVICE:

Our Technical Service Department is available at any time to advise you in the correct use of this product or any other Ahlia products.

Note : The information presented herein is based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control.

As all Ahlia Technical Data Sheets are updated on a regular basis, it is the user responsibility to collect most recent issue.