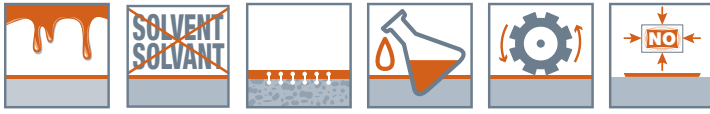


EPICOL INJ LV

LOW-VISCOSITY EPOXY RESIN FOR CONCRETE INJECTION



DESCRIPTION

EPICOL INJ LV is a 2-component, solvent-free, (ultra) low-viscosity epoxy resin for structural bonding and monolithic sealing of voids and (micro) cracks in dry or humid concrete.

Sealing purposes can be both to prevent contaminants penetration as waterproofing.

EPICOL INJ LV is also applicable for sealing and repairing cracks contaminated with oils and/or greases.

BENEFITS

- (Ultra) low-viscosity with deep penetration into micro cracks
- Solvent-free
- Long processing time or pot-life
- Simple mixing ratio
- Deep penetration in micro cracks
- Excellent adhesion to concrete, also for humid substrate
- Good chemical resistance
- Excellent mechanical strength
- Minimal shrinkage

FIELD OF APPLICATION

For structural repair of:

Residential, industrial and civil structures or structural elements, such as floors, walls, beams, columns, bridge and parking decks, and water retaining structures.

EPICOL INJ LV can be used as glue for bonding and anchoring. The bonding of steel sheet lining / cladding for concrete is possible by low pressure injection.

APPLICATION

Note: The following is a typical application description. In case of other jobsite parameters, please contact our technical department.

PRELIMINARY ANALYSES

Before starting the substrate preparation and applying the products, it is important to test various parameters in order to achieve a good and sustainable result.

Compressive strength of the substrate: min. 25 N/mm²

Tensile strength of the substrate: min. 1.5 N/mm²

EPICOL INJ LV can be applied on a dry or moist substrate, in accordance with EN 1504-5 CE marking.

REQUIRED TOOLS

Injection

- Drill and drill bits of appropriate diameter and length.
- Injection nipples
- Packers of appropriate diameter and length.
- Injection pump; manual, pneumatic or electric.

Gluing

- Paint brush

PREPARATION OF THE SUBSTRATE

Make sure the surface is clean, repaired and sealed. The recommended processing temperature for the surface, the surroundings and the material is 15 to 25 °C. Do not use below 8 °C.

PREPARATION OF THE PRODUCT

Stir the base (component A) evenly before use. Add the full amount of hardener (component B) and mix mechanically (300 rev/min) until both components are homogeneous.

PREPARATION OF THE EQUIPMENT

Always work with clean mixing containers and application material.

APPLICATION

Injection in concrete

EPICOL INJ LV is injected with a low pressure pump. Glue the injection packers on the crack and finish with a layer of EPICOL U. Alternatively use pre-drilled injection packers.

The injection starts at the lowest point for vertical applications, and at the smallest crack for horizontal ones. Start the injection in the first nipple. Inject the crack until the resin reaches the next injection nipple and repeat this procedure for each nipple until the crack is completely filled. Never mix more resin than can be used within the pot life. Rinse the pump with SOLVENT MEK.

EPICOL INJ LV is fully cured after one day and the injection nipples can be removed.

Gluing

EPICOL INJ LV is an excellent adhesive for gluing flat parts together. Apply EPICOL INJ LV with a brush on the flat parts. Press these together for 24 hours.

COMPLIMENTARY PRODUCTS

- Cleaning solvent for tools: MEK SOLVENT
- For injecting: Injection nipples / packers, EPICOL U

TECHNICAL DATA

APPEARANCE - COMPOSITION

A-component	Modified epoxy resins
B-component	Polyamine hardener
Colour	Transparent amber

REACTION TIMES

EPICOL INJ LV can be mechanically loaded after curing for 48 hours at 20 °C up to approx. 85 N/mm² compressive strength according to EN 196-1.

CONSUMPTION

Is estimated by the engineer or user.

Is dependent on the amount of filling, the crack width and depth.


TECHNICAL DATA

Specific mass (cured): - Component A - Component B	1.11 (1.14) kg/dm ³ 1.115 kg/dm ³ 0.942 kg/dm ³	EN ISO 2811-2 EN ISO 2811-2
Viscosity: - at 8 °C - at 21 °C - at 30 °C	390 mPa.s 140 mPa.s 87 mPa.s	EN ISO 3219
Compressive strength 28 d at 20°C	+/- 100 N/mm ²	EN 196-1
Tensile strength at break	+/- 59.1 N/mm ²	EN ISO 527-2
Elongation at break	+/- 4.9%	EN ISO 527-2
E-modulus	+/- 2870 N/mm ²	EN ISO 527-2
Adhesion to dry concrete Adhesion to humid concrete Adhesion to steel	+/- 6 N/mm ² +/- 3.8 N/mm ² (after aging 3.5 N/mm ²) >12 N/mm ²	EN 1542 EN 12618-2 EN 1542
Pot-life (100 g)	+/- 80 min at 25 °C	
Mixing ration	A : B 100 : 30 (by weight)	
Minimum application temperature	+8 °C	
Hardening time at 20 °C: - Mechanical loads - Chemical loads	48 hours 7 days	
Volumetric shrinkage	2.7%	EN 12617-2
Shelf life	24 months	

CHEMICAL RESISTANCES

Good chemical resistance to alkalis, petroleum derivatives, acid, diluted organic acids, salts and solutions. For more information please contact RESIPLAST NV.

CE MARKING

	
KORAC NV, Gulkenrodestraat 3, 2160 Wommelgem, Belgium	
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EN 1504-5 0749-CPR-BC2-565-4714-0005-001	
Injection product with réactive polymer binder (P) for force transmitting filling of cracks, voids, and interstices U(F1) W(1) (1/2) (8/30) (0)	
Adhesion by tensile bond strength	> 3,0 N/mm ²
Adhesion by slant shear strength	Monolithic failure
Shrinkage	< 3%
Glass transition temperature	> 40 °C
Workability crack, void, or interstice - Width: - Moisture state:	From 0.1 mm Dry and damp
Durability (EN 12618-2)	Pass
Corrosion behaviour	Deemed to have no corrosive effect
Dangerous substances	Complies with 5.4
DoP N°: DOP04EPC01S5	

PACKAGING

EPICOL INJ LV	COMPONENT A	COMPONENT B
Set 3 kg	2.31 kg	0.69 kg

STORAGE AND SHELF LIFE

Store EPICOL INJ LV in a dry, well ventilated storage area between 5 and 35 °C. 24 months shelf life.

If in doubt, contact RESIPLAST NV and provide the batch number on the package. Do not let the product get in contact with ground water, surface water or sewage systems. Dispose of contaminated packaging and remnants according to legal regulations.

SAFETY PRECAUTIONS

Carefully read the safety instructions before using EPICOL INJ LV. Products have a characteristic odour when being applied. Ensure there is sufficient ventilation, stay away from ignition sources and do not smoke. Avoid contact with skin. Eye irritation and/or sensitivity may occur during heavy vapour concentrations, inhalation and/or skin contact. Do not keep food products (food, beverages) in the same workspace. Always wear personal protective equipment according to local guidelines and regulations. Gloves and safety goggles are mandatory.

The above information is provided in good faith, but without any guarantees. The application, use and processing of the products are beyond our control and are, as such, the sole responsibility of the user/processor. In the event that KorAC NV is still held liable for damages, then the claim will still be limited to the value of the goods delivered. We always aim to deliver consistently high quality goods. All values on this technical sheet are average values that result from tests carried out under laboratory conditions (20 °C and 50% RH). Values that are measured on the construction site may show a slight deviation since the environmental conditions, the application, and the way of processing our products are beyond our control. Do not add any products other than those indicated on the technical documentation. This version replaces all previous versions. Version 2.0 Date: 27 March 2023 9:39 am