

PRODUCT

REPIKIT 310 is an injection system based on two-component epoxy resin. It is prepacked in world-wide patented two-chamber cartridges. The ready-to-use kit contains all ancillary materials for carrying out an injection work by hand gun at relatively high pressure.

APPLICATION FIELD

- Structural repair of cracked concrete e.g. columns, beams, foundations, walls. Consolidation of friable rock or porous stones.
- Impregnation of wooden structures.
- Gap filling of wooden flooring to avoid noise and crunches.
- Bonding of hollow concrete floorings or thresholds, flags etc.

FEATURES and BENEFITS

Ready-to-use kit suitable for applications on site.

Resin and hardener are prepacked in the same cartridge and kept separated by a glass container.

For preparing the mixture just break the glass container and mix.

Therefore high safety and no hazard of skin contact.

Easy to inject by hand or air gun getting pressures up to 15 bar (217 psi).

Practical nipples with non-return valve.

Low viscous, solvent free epoxy system of high quality.

High mechanical properties.

Excellent adhesion on dry or wet concrete.

Other kits available :

- REPIKIT 312 Thixotropic Version**
- REPIKIT 315 Crack Sealer/Adhesive**

KEY DATA

As supply form liquid

Viscosity of mixture at :

10°C	mPas	400-800
20°C	mPas	250 - 500
30°C	mPas	100 - 250

Density at 25°C g/cm³ ca. 1,0

Self life at 10-30°C year > 1

POTLIFE at

10°C	min.	100
20°C	min.	50
30°C	min.	25
40°C	min.	15

SETTING TIME at

10°C	hours	12
20°C	hours	7
30°C	hours	5
40°C	hours	3

MECHANICAL PROPERTIES

after 7 days curing at 23°C

Compres. strength ¹⁾		> 70
Flexural strength ²⁾	N/mm ²	> 45
Tensile strength ³⁾	N/mm ²	> 55
Modulus of Elasticity	N/mm ²	- 2800
Bond strength in tensile ⁴⁾		
- on dry concrete	N/mm ²	> 4.5
- on wet concrete	N/mm ²	> 2.5
Elongation at break	%	ca. 2,5

1) DIN 53454

2) ISO 178

3) ISO R 527

4) ISO 4624

PACKAGING

A carton box contains:

- 12 Cartridges each one with 0,25 kg binder. Total binder content 3.0 kg
- 30 Nipples with non-return valve
- 6 Lengths of hose with non-return valve
- 4 degasing pins

STORAGE

Storage temperature **1 0 - 40 C**
Self life **1 year**
un-opened in original packing

REMARKS

Before starting an injection work check the crack carefully. It is important to know width, depth and length of a crack so that the consumption can be guessed. Then mark the points where the nipples will be fixed.

ANCILLARY MATERIALS

	Packaging
- Nipples	30 pieces
- Length of hoses	6 pieces
- Air release pins	4 pieces
- Special hand gun	1 piece

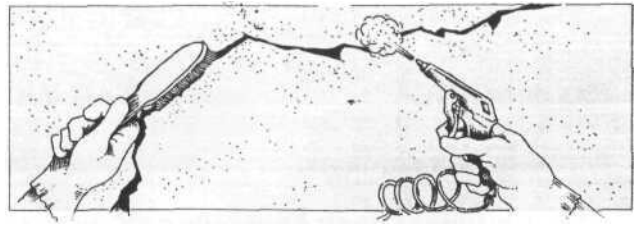
SAFETY PRECAUTIONS

Take special care to avoid skin and eyes contact with low viscosity resin/hardener system when injecting under pressure. Always wear gloves and goggles or an industrial helmet with face shield. Remove without delay any splashes using paper towels and then wash with soap or hand cleansing paste. Under no circumstances remove resin or hardener from skin with solvents. In case of splashes in the eyes wash immediately with running water, then consult a doctor.

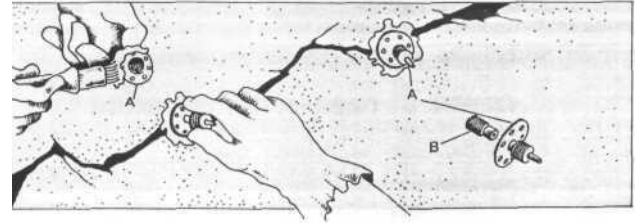
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APPLICATION GUIDE-LINES

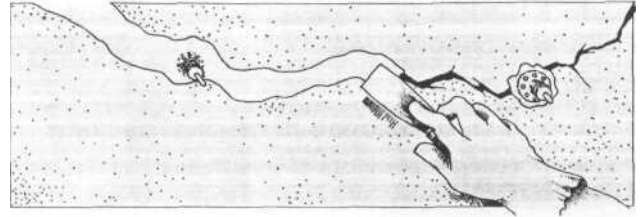
Prepare the crack surface removing all dirt, laitance and loose material by abrading with a stone or brush and then by vacuum cleaning or compressed air.



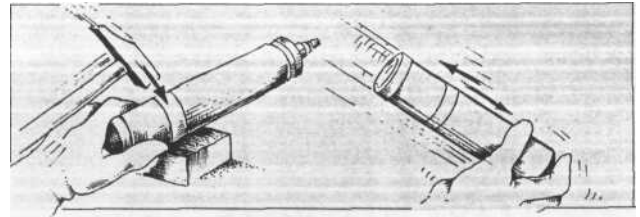
Fix the nipples by applying a rope of epoxy sealer on the back and then stocking it onto the crack in a distance of 20-30 cm.



Seal carefully the whole crack by means of a spatula or a brush and then let it cure.



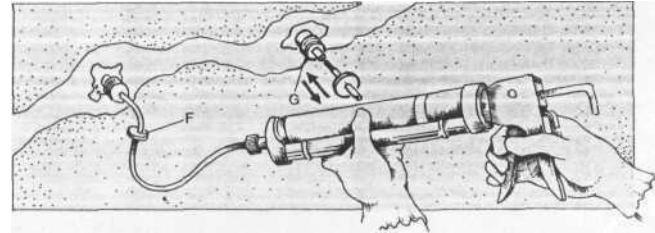
For mixing break first the internal glass bubble with a hit and then turn up and down the cartridge for approx. 20 times. Do not shake.



Afterwards pierce the spigot seal of the cartridge and connect the hose making sure that the gasket is in between.



Insert the cartridge into the gun and attach the length of hose to a nipple and twist on the screw top carefully. Insert a pin into the next nipple to open the non-return valve and then start injecting. Begin always at the lowest nipple to avoid air entrapment.



After the injected material has cured - generally over night - remove the nipple and the sealer by means of a chisel and a grinder.

