

ABAINJECT EP-110 INJECTION ADHESIVE FOR CONCRETE

ABAINJECT EP-110 is a two components, solvent-free, low viscosity Injection-Adhesive, based on high strength epoxy resins and special Hardener to form a permanent bond or seal. It conforms to ASTM C881 and EN 1504-5.

FIELD OF APPLICATION

- Pressure injection of cracks in structural concrete, masonry, wood, etc.
- Structural repairs
- Grouting bolts, dowels, pins into horizontal concrete surfaces
- Seals concrete from water absorption, chloride-ion intrusion and chemical attack
- Prolongs life of cracked concrete

ADVANTAGES

- Excellent bond to concrete, brick and masonry
- Low viscosity for excellent penetration into existing cracks
- Injectable by a single component either manual or automated pumps
- Solvent free
- Resistant to wide range of chemicals

SUBSTRATE PREPARATION

Substrates must be sound, clean, free from oil and grease, old coatings and surface treatments etc. Concrete, mortar stone should be thoroughly prepared by mechanical means such as grinding, chiseling etc. Cracks must be cleaned to remove dust by using compressed air.

Extension of usage

It depends on the coordination scale of section to be injected.

APPLICATION

ABAINJECT EP-110 is supplied in two containers as a unit. Always mix a complete unit in the proportion supplied. Once the unit has been mixed it must be used within the working Pot life specified.

1-Agitate Part A and B separately with a power agitator.

2-Combine entire contents of curing agent (part B) with base (part A) and mix thoroughly with power agitator

3-Mix thoroughly for at least three minutes, scraping the container bottom and side to assure complete mixing. There is no induction or waiting time required after mixing before injection.



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Iran Standard's Mark
Holders Association
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ISO 9001:2008
TÜV NORD Iran PJS



National Accreditation
Center of Iran
ISO / IEC 17025



Iranian Concrete
Institute
Membership



Ministry of Industry,
Mine and Trade
R & D Certificate

Mixed ABAINJECT EP-110 can be injected under pressure into the cracks using a single component injection pump, or a high pressure Hand Pump. Injection ports (packers) are set at approx. 25 cm intervals beside the crack and the crack between the injection ports (packers) sealed with ABADUR-P 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.

TECHNICAL PROPERTIES

Appearance	Part A: white viscose liquid Part B: black viscose liquid
Color	Light grey
Mixing Ratio (A:B)	2:1 (by weight)
Density (A+B)	Approx. 1.3 g/cm ³
Volume solid	100%
Flash point	80°C
Cleaner	T-200
Application Temperature	+20°C ± 30°C

MECHANICAL PROPERTIES

Compressive Strength	60-70 N/mm ²
Flexural Strength	30-35 N/mm ²
Tensile Strength	18-20 N/mm ²
Bond Strength to Concrete	2.5-3.0 N/mm ² (concrete Failure)

POT LIFE:

Temperature	+15 °C	+25 °C	+40 °C
Pot life	50 min	30 min	20 min

STORAGE

Shelf life: 1 year in the original package

Storage condition: should be protected from direct sunlight and moisture. Keep Gallons in the temperature range between +10°C and +30°C.

Packing: Pre-batched Part A+B: 1.6 x 0.8 kg units. 2.4 kg at Total.



HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (available on request) containing physical, ecological, toxicological and other safety-related data.

TECHNICAL SERVICE

The ABADGARAN INTERNATIONAL GROUP Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

