

## ABAINJECT EPW-210

### TWO COMPONENTS, SOLVENT FREE INJECTION ADHESIVE

ABAINJECT EPW-210 is a two-components, solvent-free injection adhesive specially formulated based on high strength modified epoxy resin and special hardeners. This product is designed in low, medium and high viscosity ranges to allow injection in different parts of cracks. This product is able to be used in grouting of either wet, dry and water-filled cracks to result in a filled cracks and fully restored concrete. It conforms to ASTM C881 and EN 1504-5.

#### FIELD OF APPLICATION

- Pressure injection of cracks in structural concrete and masonry
- Able to be injected in any condition of cracks in process of structural repairs
- Seals concrete from water absorption, chloride-ion intrusion and chemical attack
- Prolongs life of cracked concrete

#### CHARACTERISTICS/ADVANTAGES

- Excellent bond to wet, water filled and dry concrete
- Different viscosity ranges 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, surface treatments, etc. Concrete, mortar and stone should be thoroughly prepared by mechanical means such as grinding, chiseling, etc. Cracks must be cleaned to remove dust by using compressed air. In case of Inaccessible cracks, use ETCHING SOLUTION twice for 15 minutes. After each time, rinse thoroughly with water for 15 minutes.

#### EXTENSION OF USAGE

Depending on the Geometrical Scale of Section to be Injected, the appropriate amount and type of products should be considered.

#### APPLICATION

ABAINJECT EPW-210 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.



موسسه استاندارد و تحقیقات صنعتی ایران  
تأییدیه صلاحیت آزمایشگاه همکار



مرکز ملی تأیید صلاحیت ایران  
ISO / IEC 17025



مجوز صادرات  
به اتحادیه اروپا



استاندارد ملی ایران



Mixed ABAINJECT EPW-210 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 appropriate intervals next to the crack and the crack between the injection ports (packers) sealed with ABADUR-MP 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	ABAINJECT EPW-210L	Part A: Yellow viscose liquid Part B: Brownish viscose liquid
	ABAINJECT EPW-210M	Part A: Green viscose liquid Part B: Brownish viscose liquid
	ABAINJECT EPW-210H	Part A: Blue viscose liquid Part B: Brownish viscose liquid
Mixing Ratio (A:B)	ABAINJECT EPW-210L	100:40
	ABAINJECT EPW-210M	100:30
	ABAINJECT EPW-210H	100:20
Density (A+B)	ABAINJECT EPW-210L	1.4 g/cm <sup>3</sup>
	ABAINJECT EPW-210M	1.6 g/cm <sup>3</sup>
	ABAINJECT EPW-210H	1.8 g/cm <sup>3</sup>
Volume solid	100%	
Cleaner	MACHINERY CLEANER	

### PERFORMANCE CHARACTERISTICS

Complies with the scope of standard EN 1504-5			
Conditioning	Method of standard	Strength (MPa)	category
Water filled		>2.5	F1
Wet	EN 12618-2	>2.5	F1
Damp		>2.5	F1
Dry		>2.5	F1


 موسسه استاندارد و تحقیقات صنعتی ایران  
تائیدیه صلاحیت آزمایشگاه همکار

 مرکز ملی تایید صلاحیت ایران  
ISO / IEC 17025

 مجوز صادرات  
به اتحادیه اروپا


استاندارد ملی ایران



**Pot Life**

Temperature	15°C	25°C	40°C
Pot Life	50 Minutes	30 Minutes	20 Minutes

**STORAGE**

Shelf life: 1 year in the original package

Storage condition: should be protected from frost, direct sunlight and moisture. Keep gallons in the Temperature range between +10°C and +30°C.

Packing: Pre-batched Part A+B: ABAINJECT EPW-210L 14 kg  
 ABAINJECT EPW-210M 15.6 kg  
 ABAINJECT EPW-210H 15 kg

**HEALTH AND SAFETY**

This product is Flammable. Keep away from heat and open flame. Keep container closed. Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to the health:

- 1-Circulate adequate fresh air continuously during application and drying.
- 2-Use fresh air masks and safety equipment.
- 3- Prohibit all flames, sparks, welding and smoking.

MSDS is available at ABADGARAN website.

**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.



موسسه استاندارد و تحقیقات صنعتی ایران  
 تاییدیه صلاحیت آزمایشگاه همکار



مرکز ملی تایید صلاحیت ایران  
 ISO / IEC 17025



مجوز صادرات  
 به اتحادیه اروپا



استاندارد ملی ایران

تهران، خیابان سهروردی شمالی، خیابان شهید قندی غربی، ساختمان شماره ۱۲۴، واحد ۱ تلفکس: ۸۷۷۵۴

www.abadgarangroup.com

info@abadgarangroup.com



واحد تولیدی نمونه ملی