



## ADHEREX GROUT -115

### Epoxy Injection Grout

Epoxy resin system for injection grouting dry & wet cracks.

#### I. Advantages of the system.

- Low viscosity of the mix
- Excellent penetrability under pressure
- Good flexibility on cured mass.
- Good mechanical properties
- Ability to cure under wet conditions.

II. Field of applications: This system is recommended for grouting.

- Wet cracks
- Dry Cracks
- Strengthening of concrete structures.

#### III. System Recommended

- Adherex Part – A : 100 parts by weight
- Adherex Part - B : 50 parts by weight

#### IV. Specification of RESIN & HARDNER

##### Adherex Grout -511

- Type : DGEBA based
- liquid epoxy resin
- Epoxy equivalent (g/eq) : 173 – 200
- Viscosity @ 25°C (cps) : 400 – 500
- Specification gravity @ 25 °C : 1.11 – 1.16
- Storage stability when stored in Original containers @ R.T : up to 12 months.

##### Adherex Grout -511

- Type : Polyamides
- Appearance : Amber colored
- viscous liquid
- Viscosity @ 25°C (cps) : 200 – 600
- Specific gravity @ 25°C : 0.96 – 0.97
- Storage stability when stored in Original containers @ R.T : up to 12 months.

#### V. Method for crack grouting:-

Generally pressure injection method is used for sealing fine and medium size cracks. This method involves following steps.

-Location of cracks

- Making 'V' grooves along the length of the crack.

-Fixing of grout nipples. Metallic or plastic tubes of 8-20 dia can be used as grout nipples. Spacing between grout nipples will depend on the length of the crack.

- In case of deep cracks, inclined drilled holes are made in concrete surface interrupting the plain cracks at different depths.

-Sealing 'V' grooved crack at surface by epoxy mortar or putty.

-Injection of the above mix through grout nipples. Viscosity of the mix can be reduced.

-For higher pressure suitably fabricated pressure vessel can be used .Before grouting, cleaning of cracks by means of compressed dry air is suggested.

-In case of vertical cracks, injection is started at lowest nipple and continued until the injected grout begins to flow out at the next higher nipple. The first nipple is then closed off and injection continued at the second until epoxy grout flows out at the third. This process is continued until whole length of crack has been treated.

-Injected mixture is cured for minimum 7 days at room temperature.

Safety Precautions: Avoid direct contact of resin / hardener with skin. Use of hand gloves during handling is recommended. Splashes on the skin, if any should be removed immediately with suitable remover.

#### Note:

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