

## TECHNOEPO-20

High strength epoxy binder and injection resin



### Product description

Technoepo-20 is a high modulus, low viscosity, epoxy resin designed for injection into non-moving cracks in concrete structures. Its medium to low viscosity will allow maximum penetration into gap widths of 0.25mm and above. TechnoEpo-20 exhibits extremely high strength when in cured state, thereby restoring structural integrity. It is moisture insensitive there by allowing for repair works on damp cracks via simple injection.

### Product features

- Aggregate extendable
- Excellent adhesion
- Fast cure
- High strength
- Increased working time
- Low viscosity
- Moisture insensitive
- Non-shirk capability
- Non-toxic when cured, can be used in potable water tank
- Restores structural integrity
- Simple and user friendly

### Where to use

- Beams and columns
- Bolt grouting
- Concrete repair
- Hollow repair
- Injections of cracks in dry or damp concrete
- Joint reinstatement
- Pre-cast members

### Application guidelines

#### Surface Preparation

As with any epoxy resin system, surface preparation is critical. Concrete surfaces or cracked sidewalls to which this product is to be applied should be cleaned by compressed air or water jet to ensure a superior bond. If both sides of a substrate are accessible, they should both be sealed with TechnoEpo-10 high strength epoxy putty before injecting TechnoEpo-20 to ensure complete crack filling.

#### Mixing

Mix using clean containers, pour TechnoEpo-20 into a container of mix ratio of 2 parts of A (by volume) to 1 part of part B (by volume). Mix for 2-3 minutes constantly using low speed paddle mixer until the uniform color is achieved. All mixture must be used within 30-45 minutes.

#### Application Method

Injecting the mixed TechnoEpo-20 resin using TN Injector or other types of TN Pump. Start resin injection from the lowest part of the crack. Go on the next injection port when TechnoEpo-20 is seen appearing from the upper port. Repeat the process until the cracks are filled with resin. Upon completion of repair to a crack line, allow almighty Injector to maintain its maximum pressure (2.5 bar to 4 bar) at its injection point. During injection, have TechnoEpo-Plug ready to seal any possible leaks from around the ports or crack or other parts of the concrete. Once the resin has set, preferable 24 hours, remove the injectors and restore the surface by mechanical means.

#### Cleaning

All tools and equipment should be cleaned immediately after use with TechnoClean-Ultra or other suitable solvent.