

# INJECTOFIL ECO

Low viscous epoxy  
injection resin grout



## Description:

INJECTOFIL (ECO) is a two part system comprising of liquid base and hardener. It's low viscous Properties made it able to penetrate deeply in cracks perfectly to form permanent seal with high strength .It is designed for injecting into narrow gaps, cracks and voids ranging from 0.25 mm to 9 mm and can be used also in structural crack of 0.05 to 3 mm.

## Uses:

- INJECTOFIL (ECO) is used for injecting into cracks, honeycombs and cavities in concrete structures & structural cracks
- It can also be used for grouting base plates with very narrow gaps (<10mm)

## Advantages:

- Low viscosity can help injecting into fine cavities and narrow gaps
- It has high tensile and compressive strength which ensure long life span of structure
- High mechanical strength grout will performs even under heavy loads and stresses
- Excellent adhesive strength
- Two part system and easy to mix and handle
- Non shrink properties
- High range of chemical resistant performance
- Environment friendly

## Company Standard Compliance:



## Technical Information:

### Resin:

Properties	Specification
Appearance	Clear liquid
Color (Gardener Scale)	NMT 1
Epoxy Value (Eq/kg)	Min. 5.3 Max. 5.65
Viscosity @25°C by brookfield	Min. 540 Max. 650

### Hardener:

Properties	Specification
Appearance	Clear Yellowish Viscous liquid
Color (Gardener Scale)	12 Max
Amine Value (Mg/KOH)	360-390
Viscosity @25°C by brookfield	11000-16000

SPGR @25°C	0.97-0.99
Hydrosable Chlorine Content (%)	NMT 0.6

### Application Procedure:

#### Crack filling application

- The area to be injected shall be cleaned to remove all loose material, laitance, grease and other deposits.
- Injection holes of 8 - 10mm dia. shall be drilled at fixed intervals along the crack length or in a grid pattern in case of grouting of voids in concrete.
- The holes shall be cleaned to remove all dust and loose material by blowing compressed air.
- Suitable injection nipples of GI/PVC shall be fixed in these holes using an epoxy sealing putty. The cracks shall also be sealed with this product.
- The two components of INJECTOFIL (ECO) injection grout shall be individually stirred and then mixed and injected into the nipples through a suitable injection pump exerting a uniform pressure.
- Injection shall be carried out till it flows from the adjacent nipple and then stopped. The same operation shall be carried out for the next nipple.

#### Base plate grouting application

- Construct form work ensuring gap between base plate and form work perimeter should not exceed 75 mm on pouring side and 25 mm on opposite side.
- Form work should be leak proof.
- The area to be injected shall be cleaned to remove all loose material, laitance, grease and other deposits.
- All metal should be cleaned to bright finish & all surface must be dry prior to placing.
- Place INJECTOFIL (ECO) with in its pot life and continuous flow is necessary without any placing gap sufficient grout must be available prior to starting and the time taken to pour a batch must be regulated to the time taken to prepare the next one.

### Flow characteristics:

The maximum distance of flow is governed by the gap thickness, the head of grout applied and the ambient temperature.

### Cleaning:

All tools and equipment should be cleaned immediately after use with REDWOP SOL. Spillages should be absorbed with sand or sawdust and disposed in accordance with local regulations.

### Limitations:

#### During application:

INJECTOFIL ECO grouting may be carried out without special precautions at ambient temperatures from 5°C - 25°C. All epoxy systems will develop a temperature rise on mixing. Its extent will be a function of the volume to surface ratio, the ambient temperature, as well as the mass and thermal conductivity of the surrounding materials. Once mixed, place INJECTOFIL ECO immediately - do not hold in bulk or re-lid the container of mixed product.

### Packaging:

INJECTOFIL (ECO) is supplied in 30 kg container.

### Storage & Shelf-life:

Minimum of 12 months shelf-life if kept under room temperature (i.e. 27°C).

### Health & Safety:

INJECTOFIL (ECO) contains resins which may cause sensitization when comes in contact with skin. Contact with skin and eyes and inhalation of vapor shall be avoided. Use of suitable protective clothing, gloves and eye/face protection is recommended. Barrier creams provide additional skin protection should be used. If accidental skin contact occur, it shall be removed immediately with a resin removing cream, followed by soap and water.



It is the practice of increasing efficiency with which buildings use resources- energy, water and materials-while reducing building impacts on human health and the environment.



ISO 45001 is the world's international standard for occupational health and safety, issued to protect employees and visitors from work-related accidents and diseases.



ISO 9001:2015 is a globally recognized standard for quality management systems (QMS). It helps organizations of all sizes and sectors to: Improve performance, Meet customer expectations, Demonstrate commitment to quality, and Identify and improve processes that lack consistency.



ISO 14001 is the internationally recognized standard for environmental management systems (EMS). It provides a framework for organizations to design and implement an EMS, and continually improve their environmental performance



This symbol is used to identify Redwop products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



Our Commitment To The Environment  
Redwop products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.



ISO/IEC 17025 enables laboratories to demonstrate that they operate competently and generate valid results, thereby promoting confidence in their work both nationally and around the world.