

# EPICONEPOXIDERESIN CRACK INJECTION SYSTEM

## Description

A solvent free epoxide crack injection resin available in either a low viscosity grade where maximum penetration is essential or a thixotropic version for use where maximum flow is undesirable. Suitable for injecting cracks in concrete, masonry and brickwork to consolidate the structural element and eliminate water penetration.

## Advantages

- Excellent bond strength with inbuilt flexibility.
- Suitable for use on damp structures.
- Available in two versions to cover most applications.
- Injection kit available to allow repairs to be completed quickly and simply.
- Will penetrate gaps of width 0.25mm and above.

## Technical Information

	Low Viscosity Grade	Thixotropic Grade
Viscosity - 5°C	695 cp.	Thixotropic
Viscosity - 10°C	450 cp.	Thixotropic
Viscosity - 20°C	270 cp.	Thixotropic
Specific Gravity	1.06	1.10
Pot Life at 20°C	43 mins	30 mins
Cure Time at 20°C	24 hrs	24 hrs
Yield	943 cc/kg	909 cc/kg
Compressive Strength	70 N/mm <sup>2</sup>	70 N/mm <sup>2</sup>
Tensile Strength	30 N/mm <sup>2</sup>	30 N/mm <sup>2</sup>
Flexural Strength	50 N/mm <sup>2</sup>	50 N/mm <sup>2</sup>

## Surface Preparation

Ensure crack and surrounding areas are clean and free from loose material.

## Application Instructions

1. Mix the Formfil by placing a small amount of the resin paste on to a flat board, forming a ball the approximate size of a golf ball. Squeeze out a strip of hardener approximately 25mm (1") long and mix thoroughly with a putty knife or suitable tool until a smooth even colour paste is obtained.
2. Use the Formfil to bond on injection nozzles using the locating pins to ensure the correct positioning and to seal the surface of the crack.
3. Ensure the nozzles do not become blocked with Formfil.
4. Nozzles should be bonded at between 200mm and 500mm centres depending on the width and depth of the crack.
5. Formfil will harden in approximately 20 minutes after which time injection can commence.
6. Mix the Epicon Injection Resin by adding the entire contents of the Epicon Injection Hardener to the Epicon Injection Base and slowly stir until the materials are thoroughly mixed.
7. Place the mixed resin into the assembled cartridge onto which is fixed the plastic tubing and the tube clamp. Fit into the skeleton gun.
8. Fix plastic tubing to the first injection nozzle, release the tube clamp and gently inject the resin.
9. When the resin appears at the second nozzle, cease injection and plug the first one.
10. Repeat the operation for subsequent nozzles.
11. Clean all equipment with Nuwash cleaner.
12. Remove nozzles the following day and make good any surface defects with Formfil.

## **Storage**

Epicon Injection Resin should be stored at room temperature. If stored in cold conditions the components should be warmed prior to use as this will greatly aid mixing and injection. Epicon Injection Resin should be stored away from foodstuffs and out of the reach of children. Formfil is inflammable, flash point 31°C and due precautions should be taken when handling and storing this material. Shelf life is 12 months when stored in a cool place.

## **Packaging**

Epicon Injection Resin is available in 0.25 kg and 0.5 kg units.

## **Limitations**

If injecting below 5°C contact the manufacturers Technical Department.

## **Health & Safety**

Epicon Injection Resin, like similar products, is capable of irritating unprotected sensitive skin, we therefore recommend the use of a suitable barrier cream and the wearing of gloves.

When using Formfil do not smoke or allow naked flames during use. When sanding Formfil a suitable mask should be worn. Formfil, like similar products is capable of irritating unprotected sensitive skin, we therefore recommend the use of gloves and a suitable barrier cream. The hardener is an organic peroxide, a powerful oxidising agent, therefore due precautions should be taken when handling and storing.

## **Technical Support**

Through our technical department and laboratories we can offer a comprehensive service to specifiers and contractors.

Technical representatives are available throughout the UK to provide further information and arrange demonstrations.

# **EPICONINJECTIONRESINKIT**

## **Description**

A prepacked kit containing Epicon Injection Resin is available with either Low Viscosity or Thixotropic Resin, together with all the ancillary equipment required to enable small scale crack injection to be carried out.

### **KIT CONSISTS OF:**

1	-	10" Skeleton Gun
4	-	Empty Cartridges complete
20	-	Injection Nozzles
20	-	Nozzle Plugs
20	-	Nozzle Locating Pins
1.0m	-	Plastic Tubing
4 x 250 gm		Injection Resin
1 x 750 gm		Formfil
1	-	Tube Formfil Hardener
1 x 1 litre		Nuwash
2	-	Plastic Scrapers
2	-	Pairs Plastic Gloves



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