

# webertec EP injection

Low-viscosity and thixotropic resins for injection of cracked concrete, masonry and brickwork

- \* Complies with BS EN 1504
- \* Applied by cartridge and gun
- \* Also available as kit containing resins and all accessories

## About this system

**webertec EP injection resin low viscosity** is a two-component resin for crack repairs between 0.3 and 2mm wide. The moisture tolerant resin will structurally bond the fractured sections and seal fine cracks against ingress of water

**webertec EP injection resin thixotropic** is a two-component resin for crack repairs between 0.5 and 8mm. The moisture tolerant resin will repel dampness in the cracks and bond broken substrates

**webertec EP injection kit** contains the thixotropic resin and an accessory pack to carry out crack repairs.

## Features and benefits

### webertec EP injection resin low viscosity

- Injects into cracks down to 0.3mm
- Good penetration into the crack due to low viscosity
- Can be applied in damp environments

### webertec EP injection resin thixotropic

- Injects into cracks down to 0.5mm
- Structural repairs to large cracks up to 8mm
- Gel consistency allows injection to floors, walls and soffits
- Can be applied in damp environments



## Uses

### webertec EP injection resin low viscosity

- Structural repairs to fine cracks
- Ideal for concrete, masonry and suspended floors
- Repairing plastic and drying shrinkage cracks

### webertec EP injection resin thixotropic

- Settlement crack repair in masonry buildings
- Repair of cracks to cavity walls
- Concrete bridges, retaining walls and highway structures

## Technical data EN1504-5

Performance Characteristic	Method	Requirement	Pass/Fail
Adhesion by tensile bond	EN 12618-2	F2: $f_{ct} > 2.0 \text{ N/mm}^2$	Pass
Adhesion by slant shear strength	EN 12618-3	Monolithic failure	Pass
Non-volatile matter	EN ISO 3251	>95%	Pass
Glass transition temperature	EN 12614	>40 °C	Pass
Durability	EN 12618-2	F2: $f_{ct} \geq 2.0 \text{ N/mm}^2$	Pass
Injectability into dry medium (low viscosity only)	EN 1771	< 12 min (column only) for crack widths down to 0.3mm	Suitable for down to 0.3mm
Injectability into non-dry medium (low viscosity only)	EN 1771	< 12 min (column only) for crack widths 0.3mm	Suitable for down to 0.3mm
Injectability into dry medium (thixotropic only)	EN 12618-2	>90% of the crack filled in crack width 0.5mm	Pass
Injectability into non-dry medium (thixotropic only)	EN 12618-2	>90% of the crack filled in crack width 0.5mm	Pass

## Preparation

In order to get a good bond all cracks should be clean and free from dust or other contamination, as should the area alongside the cracks. Blow out the surface of the crack to remove any dust.

The product is suitable for injecting into both dry or damp cracks. The crack should be static, with a daily movement less than 0.03mm.

Bond injection nipples onto the surface of the crack using **webertec crack sealer**. For the thixotropic injection resin, bond at intervals to coincide with the depth of penetration.

Seal the remainder of the exposed crack surface, between the nipples, with **webertec crack sealer** and allow up to 1 hour to harden before injection.

For low viscosity resin, ensure the other side of the cracked structure is sealed to prevent resin squeezing out during the injection process.

Do not use **webertec EP injection resin low viscosity** when the air or surface temperature is below 7°C or **webertec EP injection thixotropic** when the air or surface temperature is below 5°C.

## Mixing

Before mixing, stir or shake the resin and hardener in their original containers.

Mix only sufficient resin for immediate use.

Measuring cups are included for mixing small quantities.

The mixing ratio for the **webertec EP injection resin low viscosity** is 4 parts of resin to 1 part of hardener by volume.

The mixing ratio for the **webertec EP injection thixotropic** is 3 large cups of resin to one small cup of hardener.

The mixing ratio for the **webertec crack sealer** is 1 cups of resin to 2.5-3 cups of powder hardener.

## Application

Attach the plastic injection hose over the nipple with a jubilee clip, opening the restrictor clamp and gently pump the resin through the hose using a cartridge and gun.

Inject the resin until either the desired amount of resin is injected or resin is detected in the next nipple.

Close the restrictor clamp, remove the injection hose and plug the injected nipple. Move the injection hose up to the next nipple and repeat the process.

Always start at the bottom of the crack so air is displaced upwards as work proceeds.

Allow 24 hours for curing, then the plugged nipples may be broken off. Any depression or making good can be carried out with **webertec crack sealer**

To achieve a smooth finish to the surface remove any excess using a grinding wheel.

## Cleaning

Clean the tools with **webertec solvent** before the resin is cured.

## Packaging

Both the **webertec EP injection resin low viscosity** and **webertec EP injection thixotropic** are supplied in 5 litre contract pack, containing the resin and hardener.

The thixotropic product is also available as **webertec EP injection kit** that comes with an accessory pack. The kit contains:

1 litre of thixotropic resin and hardener in 4 tins for easy mixing

0.6 litre of **webertec crack sealer**

1 x tube, clip and clamp

1 x cartridge gun

4 x 320ml plastic cartridges, with plunger and nozzle

10 x nipples and caps

2 pairs of disposable gloves

## Yield

Approximate yield: 1 litre of mixed resin will fill 10 metres of crack at 1mm wide and 100mm depth

## Storage and shelf life

When stored unopened in a dry place at temperatures above 5°C, shelf life is 12 months from date of manufacture.

## Health and safety

Contains epoxy constituents. Refer to information supplied on Material Safety Data Sheet.

All skin contact with epoxy resin products should be avoided. Barrier creams should be used and operatives should wear protective clothing including gloves. Working areas should be well ventilated.

The **webertec EP injection** hardener and **webertec crack sealer** hardener components should never be mixed.



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