

Technical Data Sheet

Application

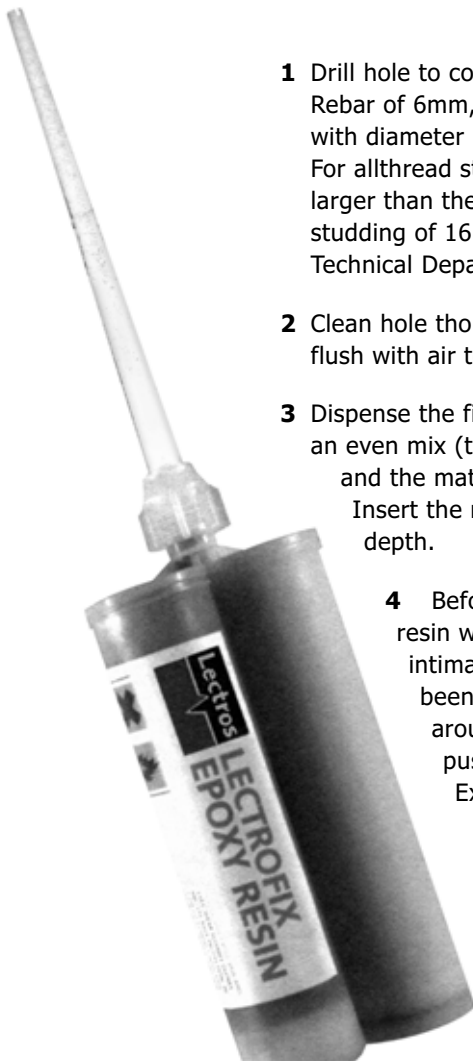
Chemical anchors can be used in many applications and have advantages over mechanical fixings. The Lectros cartridge systems can be used for the permanent fixing of wall ties, starter and extension bars, machines, underwater anchors/damp substrate, rail and crane tracks etc.

The advantages of the Lectros cartridge chemical anchorage are:

- the optimum ratio of resin and activator is dispensed by the cartridge
- the patented nozzle ensures total mixing
- the cartridge system ensures that personal contact with the resin is minimised
- very low wastage
- it does not rely on expansion to ensure a fixing and as a result can be used both for fixings in weaker substrates and with reduced edge distances
- the nature of the resin used allows a degree of vibration resistance in situations with dynamic loads
- metallic fixings encased in resin have a high degree of corrosion protection
- can be used with black, zinc plated, galvanised or stainless steel bolts
- provides extremely high pull-out loads

Installation Procedure

- 1** Drill hole to correct depth and diameter as recommended.
Rebar of 6mm, 8mm, 10mm and 12mm should be fixed into holes with diameter 2mm larger than the rebar.
For allthread studding the hole diameter should ideally be 2-3mm larger than the diameter of the thread. For fixings using allthread studding of 16mm diameter and greater, please contact our Technical Department.
- 2** Clean hole thoroughly with a stiff wire or nylon round brush and flush with air to remove drilling debris.
- 3** Dispense the first part of the cartridge to waste, until the resin is an even mix (this means both components are present in the mixer and the material is ready for use).
Insert the nozzle, and fill the hole to at least one third its depth.
- 4** Before the resin gels push the fixing slowly into the resin with a slight twisting motion to ensure the resin has intimate contact with the bolt. Sufficient resin should have been injected into the hole to ensure that resin flows around the mouth of the holes when the fixing is pushed fully home.
Excess resin should be removed.



DATA

Epoxy Resin & Polyester Resin Systems



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Mechanical Properties after curing 21 days at 20°C.

Test temperature 20°C

Tensile strength 35MPa

ISO/R 527

Flexual strength 30MPa

ISO 178

Compressive strength 60MPa

Storage

The separate components, stored at 5°C to 20°C in dry conditions, have a shelf life of at least 9 months.

Cleaning

The method of application cuts cleaning to a minimum but should it be necessary to clean brickwork or other substrates then Lectros Resin Cleaner should be employed: cured Lectro Fix will require removal by chipping or other mechanical means.

Curing

Complete cure - 7 days.

Pull out tests - Not less than 24 hours after application, the temperature to be 12°C or above.

** The colour may be changed at the manufacturers' discretion; this will not affect the properties of the product.*

Caution

Lectro Fix is generally harmless providing that the normal common-sense precautions taken when handling chemicals are observed. For instance neither the separate components nor the uncured mixture should be allowed to come into contact with foodstuffs or utensils. Measures should also be taken to prevent contact with the skin - wearing rubber or plastic gloves will normally suffice along with eye protection. Thoroughly cleanse the skin at the end of each working period by washing with soap and water. Disposable paper towels are recommended to dry the skin. Precautions are fully discussed in Product Safety Information sheet for Lectro Fix which is available on request.

Working Temperature

The material is formulated for use at 5°C to 25°C: it can be seasonably adjusted during manufacture to ensure the flow characteristics of the mixed product are constant.

Lectro Fix P Polyester Resin

Product Type Two part Polyester Resin System.

Mixing Ratio 10: 1 as supplied.

Working Life 5-7 minutes @ 20°C

Cure Time (Firm) 15-20 minutes @ 20°C

Cure Time (Tensioning) 2 hours @ 20°C (hand tight)

Full Cure 16 hours @ 20°C (final tension)

Usage Consult Lectros

Pack Size 380ml

Colour Natural

Minimum application temperature 5°C

Shelf Life 18 months from date of manufacture.

Note: *Once material has started to extrude through the nozzle overpressurising the system will not increase flow rate, but can cause leakage from the rear of the cartridge.*

Important

The information and data given is based on our own experience, research and testing and is believed to be reliable and accurate. However, as Lectros International Limited cannot know the varied uses to which its product may be applied, or the methods of application used, no warranty as to the fitness or suitability of its products is given or implied. It is the users responsibility to determine suitability of use. For further information please contact our Technical Department.

Health and Safety

Lectro Fix P base is classed as an irritant and activator as an oxidising agent. Remove from the skin using soap and water. If irritation persists seek medical advice. If material comes into contact with the eye irrigate with clean water for 15 minutes and seek medical advice. Should material be ingested drink plenty of water and seek medical advice.

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