



Technical Data Sheet

Eco-Patch LS

Shrinkage Controlled, Polymer Modified, High Strength Cementitious Repair

Description

Ecopatch LS is one component polymer modified and fiber reinforced repair mortar.

Ecopatch LS is a blend of dry powders with selected aggregates and fibers which require only the addition of water to produce thixotropic mortar suitable for structural concrete and masonry repair.

Applications

- General concrete and masonry repair, for the repair of vertical and overhead elements.
- As a repair mortar for all structural elements in buildings, water retaining structures, industrial plants, bridges,...

Advantages

- Shrinkage controlled enables one shot repairs
- Single component, user friendly
- Enhanced durability with low water permeability
- Thixotropic properties allowing extra high build for vertical and overhead applications
- Suitable for internal and external application

Technical properties

Color	Grey
Mixed density	1.90 ± 0.1
Compressive strength to BS 1881; Part 116*	> 20 MPa @ 1 day
	> 55 MPa @ 7 days
	> 65 MPa @ 28 days
Max. Depth of water	4 mm
Penetration DIN 1048 Pt5	
Mixing Ratio	0.165
Min. application Temperature:	5°C



Thicknesses and size limitations

Ecopatch LS can be applied in a single application for sections up to 50mm thick in overhead applications and 75mm thick in vertical applications. Thickness should not be less than 10mm deep in all applications.

Ecopatch LS repair area should not exceed 2.5m² in single application.

Method of use

- All damaged and weak concrete should be cut back to reach sound concrete and /or to a minimum depth of at least 5 mm.
- Corroded steel reinforcement should be grit blasted to remove all rust traces.
- In case of significant loss in the steel reinforcement cross section, the steel should be replaced.
- Remove all concrete form around exposed steel reinforcements by 5mm thickness.
- The prepared area should be cleaned thoroughly by brush and /or compressed air.

Disclaimer:

We hope that the information herein will be helpful. The data is based upon knowledge considered to be accurate and true and is offered for the user consideration, investigation and verification in the application intended. We do not warrant the results or performance attained due to the nature of the influence of other constituent components in the application.



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Priming

- All grit blasted steel reinforcements should be primed within 2 – 4 hours with one or two coats of zinc rich epoxy coating.
- Areas to be repaired with **Ecopatch LS** should be soaked with clean water before applying the repair mortar. All excess water should be removed prior to applying one coat of bonding agent **Ecobond SBR**
- **Ecobond SBR** should be left to become tacky before applying the repair mortar.

Mixing

- To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.
- 4.125 ±0.25 liter of clean water should be added to clean container. The powder is then added slowly to the water while mixing continuously with low speed mixer/drill (400 – 600rpm). Mixing time should be continued for 3 minutes until uniform consistency is obtained.

Application

Ecopatch LS can be applied by trowel or hand. The mixed mortar should be applied using firm pressure to fully compact the mortar to ensure good adhesion with the steel reinforcements and the substrate. Finishing and leveling should be carried out initially by wooden or plastic float. Final finishing should be carried out using steel float

Curing

Ecopatch LS should be cured in a similar method to concrete. Curing can be conducted by using **Ecocure AC** or by wet hessian sheets covered with polyethylene sheets.

Theoretical Coverage

Approximately: 15 liter / 25kg bag.

Storage

Ecopatch LS shelf life is 12 months if stored at temperatures between 2°C and 50°C in original unopened bags.

If these conditions are exceeded, Envirocon technical department should be contacted for advice.

Cleaning

All tools should be cleaned immediately after application using fresh water. Hardened materials must be cleaned mechanically.

Packaging

Ecopatch LS is available in 25kg bags.

Cautions

Health and safety

Ecopatch LS contains cement powders which, when mixed with water or upon becoming damp, release alkalis which can be harmful to the skin.

During use, avoid inhalation of the dust and contact with the skin or eyes. Wear suitable protective clothing - eye protection, gloves and respiratory equipment (particularly in confined spaces).

The use of barrier creams to provide additional skin protection is also advised. In case of contact with the skin, rinse with plenty of clean water, then cleanse thoroughly with soap and water.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Fire

Ecopatch LS is non-flammable.

E n v i r o c o n C o n s t r u c t i o n P r o d u c t s L L C



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