



LANKO

POLYCRETE ECO FR

STRUCTURAL PATCH REPAIR, POLYMER MODIFIED CEMENTITIOUS MORTAR FOR SPALLING CONCRETE



ECO FRIENDLY



HIGH STRENGTH



NON SHRINK

DESCRIPTION

Lanko Polycrete ECO FR is a high performance repair mortar for reinstating the integrity of the concrete slab. Lanko Polycrete ECO FR is a two-component, polymer modified cementitious mortar which is non shrink and fiber reinforced to minimize surface cracks. It only needs mixing of the two parts as supplied, without adding water, thus eliminating any error of site mixing.

Lanko Polycrete ECO FR is an environmentally friendly repair product which is specially formulated for lower embodied carbon footprint, and is certified by authorized eco labelling authorities as a sustainable building material.

USES

- As a repair medium for concrete or cementitious surfaces damaged by chemical erosion, impact or spalling because of corrosion of reinforcement.
- Lanko Polycrete ECO FR can be use as bedding for installation, angle fillet, patching cracks in areas that is subjected to minor movement.
- It can also be used for plastering and screeding of worn concrete surfaces.

ADVANTAGES

- Fiber reinforced to minimize surface cracks
Environmentally friendly repair product
- Simple to use: Materials are prepacked, preweighed to reduce errors on site mixing, designed to be mixed together and ready for use.
- Thixotropic: Allows easy trowel application thereby enabling high build application thickness in both vertical and horizontal situations.

TECHNICAL DATA

Compressive Strength @ 28Days (ASTM C109:2008)	≥ 40 N/mm ²
Tensile Strength (ASTM C307:2003)	> 3.2N/mm ²
Bond Strength (BS EN 1015-12:2000)	≥ 1.5N/mm ²
Shrinkage @ 28 Days (ASTM C531:2000)	0.08%
Pot Life 27°C	approx. 45 mins after mixing
Stiffening Time (BS EN 1015-9:1999)	@ 1.0 N/mm ² @ 2.0 N/mm ²
Max Aggregate Size	< 1mm

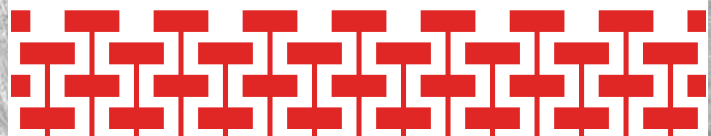
*All Results 28 days

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

ADVANTAGES (CON'T)

- Non-shrink: Upholds high bond strength to substrate and no debonding from attached surfaces.
- No dilution with water: Maintains its strength through the constant SBR resin solids, which is not diluted.
- Water resistance: Dense matrix provides waterproofing qualities.

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POLYCRETE ECO FR

MIXING & APPLICATION

Preparation

The repair area must be free from all unsound materials, i.e. dust, oil, grease, corrosion or any organic growth. Remove all loose materials and surface laitance. For repair of large areas, water jet or mechanical scrub the area before application.

Priming

Prime the concrete surface with a recommended Davco Bonding Agent. Wire brushed clean the reinforcement and prime with Lanko 760 Reinforcement Rust Inhibitor Primer.

Mixing

Measure and pour 80% of the volume of Part A in a clean mixing pot. Start mixer and slowly add Part B to avoid lumps. Once the mix is of uniform consistency, add the right amount of Part A to achieve the needed consistency.

Placing

For vertical or horizontal application, apply with a trowel to achieve the right thickness.

For repairs which need multilayer applications, it is important to ensure that previous layers are stable and well keyed, before applying the next layer.

MIXING RATIO

Lanko Polycrete ECO FR Part A 4.5 - 5.0 litres.
Lanko Polycrete ECO FR Part B 25kg.

COVERAGE

One 25kg bag of Lanko Polycrete ECO FR Part B with 5 litres of Lanko Polycrete ECO FR Part A will cover approximately 1m² at 13mm thickness.

PACKAGING

Part A : 5 litres
Part B : 25 kg

SHELF LIFE

When stored in a dry place free from moisture contact, shelf life of product is up to 12 months from the date of manufacture.

HEALTH & SAFETY

In cases of eye splashes or excessive skin contact, thoroughly flush with water. If any ill effects should occur, seek medical attention at once. Refer to safety data sheet.

Disclaimer

The use of this product is beyond the manufacturer's control and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. Specifications are subjected to changes without prior notice. Before application, customers and users are requested to check that they have the latest version of this document from our website www.parexgroup.com.sg

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