



POLYCRETE ECO

STRUCTURAL PATCH REPAIR POLYMER MODIFIED CEMENTITIOUS MORTAR FOR SPALLING CONCRETE



ECO FRIENDLY



HIGH STRENGTH



NON SHRINK

DESCRIPTION

Davco Polycrete ECO is a premium repair mortar with high compressive strength to reinstate the integrity of the concrete slab. Davco Polycrete ECO is a two-component, polymer modified cementitious mortar which only needs mixing of the two parts as supplied, without adding water, thus eliminating any error of site mixing. Davco Polycrete ECO is an environmentally friendly repair product with lower embodied carbon footprint.

USES

As a repair medium for concrete or cementitious surfaces damaged by chemical erosion, impact or spalling because of corrosion of reinforcement. Davco Polycrete ECO can be use as bedding for the installation, patching cracks, plastering and screeding of worn concrete surfaces.

ADVANTAGES

- 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.
- 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.

TECHNICAL DATA

Compressive Strength @ 28 days : 40 - 55 N/mm²
ASTM C109 : 2016a

Shrinkage @ 28 days : ≤ 0.08 %
ASTM C531 : 2000 (Reapproved 2012)

Tensile Pull-Off Strength
BS EN 1015-12 : 2016
Before Accelerated Weathering : ≥ 1.5 N/mm²

After Accelerated Weathering : Loss of Strength After Weathering ≤ 10%

Stiffening Time : @ 1 N/mm² ≤ 6.5 hours
BS EN 1015.9 : 1999 : @ 2 N/mm² ≤ 8 hours

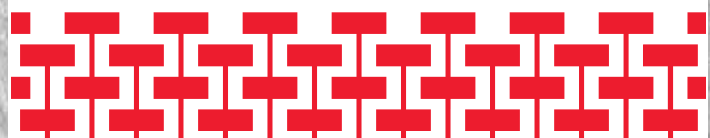
Max Aggregate Size : < 1mm

Pot Life 27°C : approx. 45 mins after mixing

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.



BUILDING TRUST





POLYCRETE ECO

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 Davco 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 (maximum thickness 30mm per layer).

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

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

COVERAGE

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

PACKAGING

Davco Polycrete ECO Part A Liquid - 5 litres.
Davco Polycrete ECO Part B Powder - 25kg.

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.sika.com.sg

Sika (Singapore) Pte Ltd.

28 Tuas South Avenue 8 Singapore 637648

Tel: (65) 6861 0632 • Fax: (65) 6862 1172

Email: sales@sg.sika.com

Website: www.sika.com.sg

Online Store: davco-online.com.sg



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