



DURACRETE ECO

POLYMER MODIFIED CEMENT MORTAR



ECO FRIENDLY



HIGH STRENGTH



NON SHRINK

DESCRIPTION

Davco Duracrete ECO is a high performance, polymer modified cementitious repair mortar for reinstating the integrity of the concrete slab. Davco Duracrete ECO is a polymer modified cementitious repair mortar which is specially formulated for spalling concrete repair. It allows for thick overhead application of upto 50mm to reduce installation time and increase on site productive and its non-shrink properties minimizes surface cracks.

Davco Duracrete ECO 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 cause by corrosion of reinforcement.

Davco Duracrete ECO 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

Thixotropic: Allows easy trowel application thereby enabling high build application thickness upto 50mm thick in both vertical and horizontal situations.

Simple to use: Materials are prepacked, and ready to use by adding of water on site.

Non-shrink: Upholds high bond strength to substrate, no debonding from attached surfaces, and minimize surface cracks.

TECHNICAL DATA

Compressive Strength : $\geq 40 \text{ N/mm}^2$
@ 28 Days
ASTM C109:2016a

Tensile Strength : $\geq 1.5 \text{ N/mm}^2$
BS EN 1015-12:2000

Linear Shrinkage : $\leq 0.08\%$
@ 28 Days
ASTM C531:2000

Stiffening Time : @ 1.0 N/mm^2 : ≤ 6.5 hours
BS EN 1015-9:1999 : @ 2.0 N/mm^2 : ≤ 8 hours

Max Aggregate Size : $< 1 \text{ mm}$

*All Results 28 days

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





DURACRETE ECO

SURFACE 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 Davco 1000. Wire brushed clean the reinforcement and prime with Davco 760 Reinforcement Rust Inhibitor Primer.

MIXING

Add approximately 4.25 to 5 litres of water to 25kg of Davco Duracrete ECO in a clean mixing pot. Mix thoroughly using electrical mixer or paddle mixer for 3 to 5 minutes until the desired homogeneous mortar paste is achieved. Ensure the mix is free from lumps before use.

APPLICATION

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.

COVERAGE

One 25kg bag of Davco Duracrete ECO will cover approximately 1m² at 15mm thickness.

PACKAGING

Davco Duracrete ECO is available in 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

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