



K10 POLYURETHANE (PU) ECO

ENVIRONMENTALLY FRIENDLY WATERPROOFING MEMBRANE



ECO FRIENDLY



LOW VOC



WATER BASED

DESCRIPTION

Davco K10 polyurethane (PU) ECO is a flexible, water based polyurethane modified, elastomeric waterproofing membrane that is free of tar, bitumen, solvents or any hazardous substance. It is approved by the Singapore Eco labelling authority as a sustainable building material.

In addition to having high elongation, Davco K10 (PU) ECO is non-blistering and UV resistant, with fast drying characteristics. It can be applied on damp surface making it ideal for use as a concealed waterproofing system for terraces and rooftops.

USES

All types of roofs, balconies and decks.

Retaining walls and basements.

Waterproofing, repair and rust protection for gutters, troughs and tanks.

Waterproofing and protection of parapet walls and flashings.

Waterproofing of external areas such as suspended structures.

Tanking.

Sealing of joints.

Lining faulty gutters and down-pipes.

Eliminates soldering of cracked nonferrous roof valleys and flashings.

ADVANTAGES

Water based and environmentally friendly product.

Suitable for use in confined areas.

Liquid applied, no mixing required, easy to use.

Flexible, seamless application, high solid content with rapid curing properties.

TECHNICAL DATA

Thickness of film	min. 0.6mm Dry Film Thickness
Solid Content	approx. 70%
Tensile Strength	> 1.5 N/mm ²
Viscosity	> 1500 cP
Elongation at break	> 400%
Shore A hardness	73
Water vapor transmission	24.92 g/ m ² / 24 hrs
Adhesion to substrate	1.22 N/mm ²
Resistance to water penetration	0
Set - to - touch	50 mins
Crack bridging up to 2mm	No crack

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.

SURFACE PREPARATION

Concrete, Render and Lightweight blocks
All new concrete slabs must be allowed to cure for at least 6 weeks. New render surfaces must be allowed to cure for at least 7 days.

Old concrete / render substrates must be cleaned with a strong commercial grade detergent or degreaser, then thoroughly wash off all residue with clean water. Allow the surface to dry for at least 24 hours.

Prime the surfaces with Davco Acrylic Primer prior to applying Davco K10 (PU) ECO.



BUILDING TRUST





K10 POLYURETHANE (PU) ECO

Metal Surfaces

All metal surfaces must be totally free of rust. Prime metal surfaces with Davco Metal Primer (WB), a premium grade primer with anti flash rust property.

Cracks

Hairline cracks up to 1mm wide which experience no movement, may be duly filled up with Davco K10 (PU) ECO before applying another layer over the area to be waterproofed.

Structural cracks which experience movement must be filled with Davco 661 and a polypropylene tape securely placed over the crack. Davco K10 (PU) ECO should then be applied over the area and on the tape and allowed to cure.

Drain Application

Treat the inside and around the drain with a separate layer of Davco K10 (PU) ECO before proceeding with the actual application of the whole surface area.

Do not allow the product to freeze.

Do not apply if the temperature is in excess of 45° C or less than 5° C.

Delay external applications when inclement weather is imminent.

Do not thin liquid, it is supplied ready for use.

For other uses or the use of Davco K10 (PU) ECO over substrates / situations not mentioned, contact the manufacturer.

APPLICATION

All surfaces to be treated must be as clean and dry as possible. It may be necessary to brush areas where dirt or scale cannot be removed, with a stiff broom.

Check surface for cracks, splits, flashing, coverings, etc. Where cracks exceed 1 mm, they must be filled with fabric matting, followed by a liberal application of Davco K10 (PU) ECO.

Prime the surfaces with Davco Acrylic Primer prior to applying Davco K10 (PU) ECO.

APPLICATION (CON'T)

Davco K10 (PU) ECO should be applied directly from the pail.

Apply one coat of Davco K10 (PU) ECO to the whole area and allow to cure, approx. 2-4 hours. (Temperature dependent)

Apply the 2nd coat in a perpendicular direction to the 1st coat.

All joints in floors should preferably be treated with additional coat of Davco K10 (PU) ECO.

Davco K10 (PU) ECO can be applied by brush or roller. Normally a minimum of 2 coats is required, unless a trowel method of application is adopted.

Where Davco K10 (PU) ECO has to be applied to above a height of 500mm from the floor level, a wire-mesh is recommended to be fixed prior to applying the protective render to prevent cracking and to improve adhesion.

Ponding should be carried out at least 48 hours after the final application of Davco K10 (PU) ECO.

Davco K10 (PU) ECO is not to be used as a trafficable top coat. It is not resistant to permanent UV exposure and weathering.

COVERAGE

Recommended for per 20 L pail:
30 - 46 m² per coat (about 0.67 - 0.43mm WFT)

PACKAGING

20 litres pail

SHELF LIFE

Shelf life up to 12 months in unopened containers when stored in a cool dry place.

HEALTH & SAFETY

In case of eye splashes or excessive skin contact, thoroughly flush with clean water if ill effect occurs. 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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