



K11 SLURRY

CEMENTITIOUS WATERPROOFING



ECO FRIENDLY



LOW CARBON
FOOTPRINT



CRYSTALLINE
TECHNOLOGY

DESCRIPTION

Davco K11 Slurry reacts with concrete by a crystallization process to form a 2 Part permanent slightly flexible waterproofing membrane capable of bridging cracks, to withstand hydrostatic pressure and for use in saturated conditions.

The unique and highly effective components in the Davco K11 powder initiates a chemical reaction on contact with the free water, moisture and lime present within the pores and capillaries of concrete to form insoluble crystal complexes that block the passage of water. These crystals remain integral in the capillaries thus producing a waterproof watertight structure.

Davco K11 Slurry Liquid (Part A) being a carbox styrene butadiene latex milky white liquid is used instead of water to improve workability on the mix, to achieve optimum adhesion to the substrate, to improve elasticity and control shrinkage on setting and to avoid early water loss during the setting process and to avoid salt efflorescence and increase abrasion resistance.

Davco K11 Slurry is used with water to produce a rigid system used externally to stop water seepage and prior to applying any elastic waterproofing system (eg. Davco K10, Davco SK2000S).

USES

For application to interior and exterior surface of wall and slab, swimming pool, kitchen, balcony, toilet, water tank etc.

For application in between horizontal structural slabs and toppings against hydrostatic pressure.

Seals and protects masonry walls against algae or fungus growth caused by atmospheric pollutants and moisture and to bridge shrinkage cracks.

To produce a tough and durable waterproofed finish which cannot be easily damaged or worn off including foot trafficking.

White colour Davco K11 system provides a decorative appearance to receive direct painting without affecting opacity.

TECHNICAL DATA

Pot Life	approx. 3 hours
Initial Set	approx. 4 hours
Final Set	approx. 5 hours
Compressive Strength 2 days	27.1N/mm ²
28 days	47.0N/mm ²

Adhesion Strength 1.28N/mm²

Tensile Strength 4.7 N/mm²

Water vapour transmission 0.00166g/s.m²

Improves water permeability of concrete by more than 300%.

Resistance to hydrostatic pressure when applied on positive side.

a) Impermeable at 15m head of water for 28days.

b) Impermeable at 70m head of water for 24 hours.

Suitable in contact with potable water (Approved by Water Authority).

Resistance to hydrostatic pressure when applied on negative side.

a) impermeable at 140m head of water for 200 hours.

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.

OTHER USES

To form waterproofed underlayments for vinyl and carpet. Waterproof external walls against water seepage.

Waterproofing of surfaces before laying marbles to help prevent efflorescence.

Cementitious waterproofed surface re-conditioner for refurbishment of existing finishes, eg. mosaic tiles.

Surface treatment to prevent absorption of concrete and autoclaved lightweight concrete (ALC) blocks.

Waterproofed surface treatment before using wallpaper, gypsumboard, ceramic tile.

PAREX
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K11 SLURRY

SUITABLE SUBSTRATES

Concrete • Brickwork • Precast Surface • Lightweight Blocks • Shotcrete

MIXING & APPLICATION

Ensure that any lumps in the Davco K11 Slurry Powder are broken up prior to mixing.

Always add Davco K11 Slurry Powder (Part B) to liquid (Part A) while continuously stirring, mix for 2-3 minutes using a mechanical stirrer until a smooth creamy, lump free consistency is achieved.

Pre-wet and saturate until damp, the concrete surface with clean water prior to applying Davco K11 System. Do not allow pooling or ponding of water.

The mixed Davco K11 System is then applied onto the substrate in a stiffling action using a block brush or roller.

Apply in minimum of two coats in perpendicular directions or in one coat using a trowel smooth finish. The area to be applied should preferably be pre-marked and the quantity of material pre-calculated to ensure that the required coverage is achieved to ensure waterproofed integrity.

The 2nd coat must be applied whilst the 1st coat is still green but sufficiently set so that it is not drawn off while applying the 2nd coat.

The mixed material must not be applied at temperature below 5°C or on frozen surfaces. In no instance should the total thickness exceed 5mm in a single application.

PACKAGING

Part A Liquid 9 kg
Part B Powder 25kg

RECOMMENDED COVERAGE

Substrate Moisture Content	Davco K11 Slurry
Ground Moisture	1.0 - 2.0 kg/m ²
Hydrostatic Pressure	2.5 - 3.5 kg/m ²
Hydrostatic Pressure (negative side)	4.0 - 5.0 kg/m ²

All applications shall be carried out in a minimum of 2 coats unless otherwise stated by the manufacturer.

PROTECTION

Protection of Davco K11 System is not obligatory. However if used on external areas, subjected to rain, harsh sunlight or frost, the finished application should be protected for at least 24 hours.

MEASURES AGAINST EXTERNAL HYDROSTATIC PRESSURE

In order to prevent an increase in the level of water pressure, the land around the building must be adequately provided with a drainage system eg. to cope with changes in ground water levels.

CHECKING THE COAT

The surface must be checked for faults before carrying out ponding tests and before the application of next layer (eg. screed, render, tiles etc.)

CLEANING

All tools and equipment should be cleaned immediately after use with water. Hardened material has to be removed mechanically.

SHELF LIFE

All powder and liquid has a shelf life of 12 months when stored in unopened bags or containers in a cool dry elevated place.

HEALTH & SAFETY

As Davco K11 System is a cement based product and contains alkali which may cause dermatitis, we recommend that PVC or similar gloves and safety goggles should be worn during handling. 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

PAREXGROUP PTE LTD

28 TUAS SOUTH AVENUE 8, SINGAPORE 637648
TEL: (65) 6861 0632 FAX: (65) 6862 3915
EMAIL: SALES@PAREXGROUP.COM.SG
WEBSITE: WWW.PAREXGROUP.COM.SG
ONLINE STORE: DAVCO-ONLINE.COM.SG

ParexGroup, a French multi-national company with headquarters in Paris, is a leading manufacturer of speciality products for the construction industry with operations in more than 20 countries, and our 2700 people around the world are the cornerstone of our growing organization.

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