



K11 FLEX

FLEXIBLE 2 PART CEMENTITIOUS WATERPROOFING SYSTEM



ECO FRIENDLY



LOW CARBON
FOOTPRINT



CRACK BRIDGING

DESCRIPTION

Davco K11 Flex is a flexible 2-part acrylic-modified cementitious concealed waterproofing system. The 2-components of Davco K11 Flex react chemically after mixing to form a hard and elastic film which bonds tenaciously to most concrete or masonry substrate to protect against possible ingress of water.

The application of Davco K11 Flex requires the surface to be saturated or wetted down prior to its application. This make Davco K11 Flex a practical and ideal product for waterproofing in damp conditions such as basement, wet areas and external areas of most sites where the surface has to be pre-washed prior to applying any waterproofing system. In external areas, application of Davco K11 Flex is not affected by change in weather conditions.

Davco K11 Flex can receive direct plaster or screed without affecting bond. Marbles and tiles can be fixed directly onto Davco K11 Flex with most types of Davco adhesives.

Davco K11 Flex can accommodate slight movement of structure and can be used as a repair material for bridging cracks in substrate or cracks due to shrinkage up to 2mm width.

USES

Apply on internal and external surface of wall and slab, swimming pools, kitchens, toilets, balcony, water tanks. External areas parking deck, planter boxes, sealing precast joints and intersection of two concrete elements. Protection to lightweight blocks, hollow blocks, aerated blocks.

Suitable Substrate

- Concrete • Brickwork • Precast Surface
- Lightweight Blocks • Shotcrete

TECHNICAL DATA

Tensile Strength	> 1.5N/mm ²	ASTM D412-2016a
Elongation at break	> 150%	ASTM D412-2016a
Adhesion to concrete	> 0.3 N/mm ²	ASTM D4541:2002
Hardness Shore A	> 40	ASTM D2240:2015
Improves water resistance of concrete by more than 7 times @ 0.2kgf/cm ²		Passed DIN 1048 Pt 5:1991
Chemical resistance		Passed
NaOCl - 0.5%		
NH ₄ OH - 1.25%		
HCl - 3.7%		
Toxicity		Passed SS 375
Bridge cracks up to 2mm		Passed
Chloride Content		< 0.01%
Drying Time (30°C) Touch Dry		Approx. 1-3 hours
Foot Trafficable		4 hours
Ponding Test		24 hours after application
Pot Life (@30°C)		Approx. 2 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.

ADVANTAGES

- 2 components eliminates risk of incorrect mixing ratio.
- Seals lightweight aerated blocks
- Seals precast joints
- Anti-carbonation protection
- Non-toxic
- Foot trafficable when cured
- Will not attack metal

BADC (APD-Specs):

- Acceptable for all Toilets; Shower Areas, Kitchen (Below full Sink Counter), Refuse Room, Slop Sink (if any);
- Verify if tile adhesive may be directly applied over waterproofing or protective screed will be required. What will be its required thickness?
- Extend waterproofing at 300mm, min. on adjacent vertical walls and 150mm on adjacent floor; over low zocalos and up to drains, complete with appropriate waterstop/weathersealant for joints and protrusions/openings.
- Apply Cementitious waterproofing according to the recommended thickness
- Provide warranty for waterproofing works per Contract Agreement and conduct water leak test minimum of 72 hours. Verify site schedule of 24-hour waterleak test on substrate prior waterproofing works



DESIGN ALLIANCE
ARCHITECTURE & PLANNING

☐	APPROVED with data for clarification
☒	DISAPPROVED / RESUBMIT
☒	WITH COMMENT
☒	FOR CONSTRUCTION
☒	NOTED

BADC 19APR2024

PROJECT:

PSDC

DATE: 19APR2024 APPROVED BY:

BADC (APD-Specs): Verify total VOC content (in g/L) of the material.



BUILDING TRUST





K11 FLEX

SURFACE PREPARATION

Clean the substrate of any protrusion or substances that may damage the membrane. Ensure all surfaces are free from dirt, dust, grease, oil, wax, curing compounds and any other loose contaminating materials.

Fill all voids, cracks, edges and angles with Davco Grout 180 ECO or suitable repair material, so that the prepared surface is sound, even and level.

MIXING

Pour Davco K11 Flex Liquid into a clean mixing container. Add the Davco K11 Flex Powder gradually while mixing until a lump free plastic consistency is achieved. NO ADDITION OF WATER IS ALLOWED. It is recommended that mechanical mixing (400-500 rpm) should be used for 2-3 minutes to ensure proper dispersion of the components.

APPLICATION

Pre-wet the surface with clean water. Do not allow water ponding. Very porous surface must be primed with Davco Acrylic Primer prior to applying Davco K11 Flex. Apply the mixed material onto the prepared surface using a block brush, squeegee or roller in a stiffling action. Apply 1-2 coats finish depending on site conditions and film thickness required. If a trowel is used for application, all undulating or uneven areas must be patched to level before applying the Davco K11 Flex to prevent the material from building up too thick in one application.

Before a 2nd coat is applied, the 1st coat must be left for approximately 2-3 hours depending on the thickness, substrate porosity and the temperature until it is dry. The 2nd should be applied in a direction perpendicular to the 1st coat.

APPLICATION (CON'T)

Davco K11 Flex must be protected by rendering or screeding after application is cured for 24 hours.

Note : If applied directly onto lightweight aerated block, the block must be primed with Davco Acrylic Primer until a coloured tint is visible.

COVERAGE

Set Size (kg)	Coverage (m ²)	Thickness (mm)
42kg set	15 – 20 m ²	Approx. 1.2mm to 1.5mm
36kg set	12 – 17 m ²	Approx. 1.2mm to 1.5mm
12kg set	4 – 6 m ²	Approx. 1.2mm to 1.5mm
10kg set	3 – 5 m ²	Approx. 1.2mm to 1.5mm

Wet film thickness: 0.7 ± 0.1 mm/coat.

PACKAGING

42 kg set, 36 kg set, 12 kg set & 10 kg set.

SHELF LIFE

Davco K11 Flex has a shelf life of up to 12 months in unopened bags and containers when stored in a cool dry and elevated position.

CLEANING

All tools and equipment should be cleaned immediately with clean water after use. Hardened material can only be removed mechanically.

HEALTH & SAFETY

Product contains cement, which may cause dermatitis. Wear rubber gloves when handling the product. In case of insufficient ventilation, put on suitable respiratory equipment. Do not apply the product when the surface temperature is below 5°C or greater than 45°C. 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.

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Certificate SG09/02195



Certificate SG95/06111



Certificate SG09/50075



ISO 14064 : 2006
Certificate GMS-C / GHG / 0002



Updated Oct 2022

SAFETY DATA SHEET

Davco K11 Flex Part A



Version
1.0

Revision Date:
19.03.2021

SDS Number:
100000037015

Date of last issue: -
Date of first issue: 19.03.2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Davco K11 Flex Part A

Product code : 100000037015

Manufacturer or supplier's details

Company : Sika (Singapore) Pte Ltd.

28 Tuas South Ave 8
637648 Singapore

Telephone : +65 6861 0632

Telefax : +65 6862 3915

E-mail address : -

Emergency telephone number : +65 6861 0632

2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
2-methyl-2H-isothiazol-3-one (MIT)	2682-20-4	≥ 0.0025 - < 0.025

4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

If inhaled : Move to fresh air.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Keep eye wide open while rinsing.

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- | | | |
|---|---|--|
| If swallowed | : | Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : | No known significant effects or hazards.
See Section 11 for more detailed information on health effects and symptoms. |
| Notes to physician | : | Treat symptomatically. |

5. FIREFIGHTING MEASURES

- | | | |
|---|---|---|
| Suitable extinguishing media | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Hazardous combustion products | : | No hazardous combustion products are known |
| Specific extinguishing methods | : | Standard procedure for chemical fires. |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. |

6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | For personal protection see section 8. |
| Environmental precautions | : | No special environmental precautions required. |
| Methods and materials for containment and cleaning up | : | Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal. |

7. HANDLING AND STORAGE

- | | | |
|---|---|--|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |
| Advice on safe handling | : | For personal protection see section 8.
No special handling advice required.
Follow standard hygiene measures when handling chemical products |
| Conditions for safe storage | : | Keep container tightly closed in a dry and well-ventilated place.
Store in accordance with local regulations. |
| Materials to avoid | : | No special restrictions on storage with other products. |

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

- | | | |
|--------------------------|---|---|
| Respiratory protection | : | Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. |
| Hand protection | : | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. |
| Eye protection | : | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary. |
| Skin and body protection | : | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. |
| Hygiene measures | : | When using do not eat or drink.
When using do not smoke. |

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | | |
|--------------------------------------|---|-------------------|
| Appearance | : | liquid |
| Colour | : | white |
| Odour | : | No data available |
| Odour Threshold | : | No data available |
| pH | : | No data available |
| Melting point/range / Freezing point | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flash point | : | > 101 °C (214 °F) |
| Evaporation rate | : | No data available |

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Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	23 hPa
Relative vapour density	:	No data available
Density	:	ca. 1 g/cm ³
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	No hazards to be specially mentioned.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available

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11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2-methyl-2H-isothiazol-3-one (MIT):

M-Factor (Acute aquatic tox- : 10
icity)

M-Factor (Chronic aquatic : 1
toxicity)

Persistence and degradability

No data available

Bioaccumulative potential

No data available

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Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and : Not applicable
Environmental Protection and Management (Hazardous Substances) Regulations

16. OTHER INFORMATION

Date format : dd.mm.yyyy

Full text of other abbreviations

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

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CAS	: Chemical Abstracts Service
DNEL	: Derived no-effect level
EC50	: Half maximal effective concentration
GHS	: Globally Harmonized System
IATA	: International Air Transport Association
IMDG	: International Maritime Code for Dangerous Goods
LD50	: Median lethal dose (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	: Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	: International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	: Occupational Exposure Limit
PBT	: Persistent, bioaccumulative and toxic
PNEC	: Predicted no effect concentration
REACH	: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
SVHC	: Substances of Very High Concern
vPvB	: Very persistent and very bioaccumulative

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.
SG / EN

SAFETY DATA SHEET

Davco K11 Flex Part B



Version
1.0

Revision Date:
19.03.2021

SDS Number:
100000037016

Date of last issue: -
Date of first issue: 19.03.2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Davco K11 Flex Part B

Product code : 100000037016

Manufacturer or supplier's details

Company : Sika (Singapore) Pte Ltd.

28 Tuas South Ave 8
637648 Singapore

Telephone : +65 6861 0632

Telefax : +65 6862 3915

E-mail address : -

Emergency telephone number : +65 6861 0632

2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 1

Skin sensitisation : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements :
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Precautionary statements :
Prevention:
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.

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P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Cement, portland, chemicals	65997-15-1	>= 30 -< 50
Limestone	1317-65-3	>= 30 -< 50
Quartz (SiO ₂)	14808-60-7	>= 30 -< 50

4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

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- In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Obtain medical attention.
- Most important symptoms and effects, both acute and delayed : irritant effects
sensitising effects
Cough
Respiratory disorder
Allergic reactions
Excessive lachrymation
Dermatitis
See Section 11 for more detailed information on health effects and symptoms.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause respiratory irritation.
- Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Hazardous combustion products : No hazardous combustion products are known
- Specific extinguishing methods : Standard procedure for chemical fires.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Avoid breathing dust.
Deny access to unprotected persons.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.
Keep in suitable, closed containers for disposal.

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7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Avoid dust formation.
Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Do not breathe vapours/dust.
Avoid exceeding the given occupational exposure limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Follow standard hygiene measures when handling chemical products
- Conditions for safe storage : Store in original container.
Keep in a well-ventilated place.
Observe label precautions.
Store in accordance with local regulations.
- Further information on storage stability : Keep in a dry place.
No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Cement, portland, chemicals	65997-15-1	PEL (long term)	10 mg/m ³	SG OEL
		TWA (Respirable particulate matter)	1 mg/m ³	ACGIH
Limestone	1317-65-3	PEL (long term)	10 mg/m ³ (Calcium carbonate)	SG OEL
Quartz (SiO ₂)	14808-60-7	PEL (long term) (Respirable dust)	0.1 mg/m ³	SG OEL
		TWA (Respirable particulate matter)	0.025 mg/m ³	ACGIH

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		TWA (Respirable particulate matter)	0.025 mg/m ³ (Silica)	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m ³	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m ³ (Silica)	ACGIH

Personal protective equipment

- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : powder
- Colour : grey
- Odour : No data available
- Odour Threshold : No data available
- pH : No data available

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Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	No data available
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	No hazards to be specially mentioned.

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Conditions to avoid : No data available

Incompatible materials : No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

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Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and : Not applicable
Environmental Protection and Management (Hazardous Substances) Regulations

16. OTHER INFORMATION

Date format : dd.mm.yyyy

Full text of other abbreviations

SAFETY DATA SHEET

Davco K11 Flex Part B



Version
1.0

Revision Date:
19.03.2021

SDS Number:
100000037016

Date of last issue: -
Date of first issue: 19.03.2021

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
SG OEL	:	Singapore. Workplace Safety and Health Act - First Schedule Permissible Exposure Limits of Toxic Substances
ACGIH / TWA	:	8-hour, time-weighted average
SG OEL / PEL (long term)	:	Permissible Exposure Level (PEL) Long Term
ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	:	Chemical Abstracts Service
DNEL	:	Derived no-effect level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
IATA	:	International Air Transport Association
IMDG	:	International Maritime Code for Dangerous Goods
LD50	:	Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	:	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	:	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	:	Occupational Exposure Limit
PBT	:	Persistent, bioaccumulative and toxic
PNEC	:	Predicted no effect concentration
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Reg- istration, Evaluation, Authorisation and Restriction of Chemi- cals (REACH), establishing a European Chemicals Agency
SVHC	:	Substances of Very High Concern
vPvB	:	Very persistent and very bioaccumulative

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.
SG / EN



SINGAPORE GREEN BUILDING PRODUCT CERTIFICATE

AWARDED TO

Sika (Singapore) Pte Ltd.

28 Tuas South Ave 8
Singapore 637648

FOR THE PRODUCT

Liquid-Applied Waterproofing

PRODUCT BRAND

DAVCO

PRODUCT MODEL

K11 Flex

THE PRODUCT HAS BEEN ASSESSED ACCORDING
TO THE ASSESSMENT CRITERIA OF SINGAPORE
GREEN BUILDING PRODUCT CERTIFICATION SCHEME.
IT HAS BEEN AWARDED THE RATING:

Director
SGBC Pte Ltd



Certificate Number	Original Issue Date	Revised Date	Valid Till
SGBP 4189	01 September 2023	26 May 2023	31 August 2025

✓/Good ✓✓/Very Good ✓✓✓/Excellent ✓✓✓✓/Leader

The use and reliance on this certificate is subject to the terms and conditions of the Singapore Green Building Product Certification Scheme. Revised certificates may also be issued at the discretion of the Council. The certification status may be verified at the Singapore Green Building Council website (www.sgbc.sg).

TEST REPORT

APPLICANT : SIKA PHILIPPINES INC.

ADDRESS : NO. 888 UNIT A&B MARCOS ALVAREZ AVENUE,
TALON 5 LAS PINAS CITY.

TESTED SAMPLE DESCRIPTION : 2-COMPONENT CEMENTITIOUS WATERPROOFING

TESTED STYLE / ITEM NO. : DAVCO K11 FLEX

SUPPLIER : SIKA PHILIPPINES

COUNTRY OF ORIGIN : PHILIPPINES

COUNTRY OF DESTINATION : NA

SAMPLE RECEIVED DATE : FEB. 20, 2021

TEST PERIOD : FEB. 20, 2021 TO APR. 20, 2021

RESULT SUMMARY :

TEST(S) REQUESTED BY APPLICANT:	RESULT
California Standard Section 01350 Specification	PLEASE REFER TO PAGE 3-4

*****FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)*****

SIGNED FOR AND ON BEHALF OF
EUROFINS TESTING TECHNOLOGY (SHENZHEN) CO., LTD.



James Luo
Senior VOC Testing Engineer



Jack Lu
Lab & Product Development Manager



The above sample(s) and sample information was/were submitted and identified on behalf of the applicant. Eurofins will not be liable for the authenticity of the information. This test report is valid for the tested sample only. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

Test Method

Method	Principle	Parameter	Detection Limit	Uncertainty	
Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers Version 1.2(Emission testing method for California Specification 01350)	TDS GC/MS	VOC	1 µg/m³ 2 µg/m³ 5 µg/m³	17.5% (RSD) U = 2 x RSD= 35%	
	HPLC/DAD	TVOC			
		Volatile aldehydes	2 µg/m³	16% (RSD) U = 2 x RSD= 32%	
Test chamber parameter					
Chamber volume (L):	119	Temperature (°C):	23	Relative humidity (%):	50
Inlet gas flow rate(m³/h)	0.12	Loading ratio (m²/m³)	1	The weight of the test sample(kg)	0.180
Conditioning start date	26/3/2021	Chamber test start date	5/4/2021		
Test condition: Sample stayed in test chamber during the whole 14 days testing period.					
Sample preparation					
Application (g/m²):		1500			
Powder(g): Liquid(g)		1:0.28			

TO BE CONTINUED

Eurofins Testing Technology (Shenzhen) Co., Ltd.

4/F., Building 3, Building 2, Runheng Electronic Park, Liuxian 2nd Road, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China
Tel.: +86 755 8358 5700 • Fax: +86 755 8358 5701 • Email: info.hk@eurofins.com • Website: www.eurofins.com / www.pt.eurofins.com

Results

Individual VOC and Aldehyde Concentration at 96 hours.

No.	Compound Name	CAS No.	Chamber Concentration (µg/m³)	Emission Factor (ug/(kg*h))	Estimated Indoor Air Concentration (ug/m³)		Allowable Concentration (µg/m³)
					Classroom	Office	
1	Acetaldehyde	75-07-0	<2	-	-	-	70
2	Benzene	71-43-2	<1	-	-	-	1.5
3	Carbon disulfide	75-15-0	<2	-	-	-	400
4	Carbon tetrachloride	56-23-5	<2	-	-	-	20
5	Chlorobenzene	108-90-7	<2	-	-	-	500
6	Chloroform	67-66-3	<2	-	-	-	150
7	Dichlorobenzene (1,4-)	106-46-7	<2	-	-	-	400
8	Dichloroethylene (1,1)	75-35-4	<2	-	-	-	35
9	Dimethylformamide (N,N-)	68-12-2	<2	-	-	-	40
10	Dioxane (1,4-)	123-91-1	<2	-	-	-	1500
11	Epichlorohydrin	106-89-8	<1	-	-	-	1.5
12	Ethylbenzene	100-41-4	<2	-	-	-	1000
13	Ethylene glycol	107-21-1	<2	-	-	-	200
14	Ethylene glycol monoethyl ether	110-80-5	<2	-	-	-	35
15	Ethylene glycol monoethyl ether acetate	111-15-9	<2	-	-	-	150
16	Ethylene glycol monomethyl ether	109-86-4	<2	-	-	-	30
17	Ethylene glycol monomethyl ether acetate	110-49-6	<2	-	-	-	45
18	Formaldehyde	50-00-0	<2	-	-	-	9
19	Hexane (n-)	110-54-3	<2	-	-	-	3500
20	Isophorone	78-59-1	<2	-	-	-	1000
21	Isopropanol	67-63-0	<2	-	-	-	3500
22	Methyl chloroform	71-55-6	<2	-	-	-	500
23	Methylene chloride	75-09-2	<2	-	-	-	200
24	Methyl t-butyl ether	1634-04-4	<2	-	-	-	4000
25	Naphthalene	91-20-3	<2	-	-	-	4.5
26	Phenol	108-95-2	<2	-	-	-	100

TO BE CONTINUED

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Tel.: +86 755 8358 5700 • Fax: +86 755 8358 5701 • Email: info.hk@eurofins.com • Website: www.eurofins.com / www.pt.eurofins.com

No.	Compound Name	CAS No.	Chamber Concentration (µg/m ³)	Emission Factor (ug/(kg*h))	Estimated Indoor Air Concentration (ug/m ³)		Allowable Concentration (µg/m ³)
27	Propylene glycol monomethyl ether	107-98-2	<2	-	-	-	3500
28	Styrene	100-42-5	<2	-	-	-	450
29	Tetrachloroethylene	127-18-4	<2	-	-	-	17.5
30	Toluene	108-88-3	<2	-	-	-	150
31	Trichloroethylene	79-01-6	<2	-	-	-	300
32	Vinyl acetate	108-05-4	<2	-	-	-	100
33	Xylenes, technical mixture (m-, o-, p-xylene combined)	108-38-3, 95-47-6, 106-42-3	<2	-	-	-	350

Formaldehyde and TVOC Concentrations at 24, 48 and 96 hours.

	Elapsed Time (hours)	Chamber Concentration (µg/m ³)	Emission Factor (µg/(kg*h))	Estimated Indoor Air Concentration (µg/m ³)	
				Classroom	Office
Formaldehyde	24	<2	-	-	-
	48	<2	-	-	-
	96	<2	-	-	-
TVOC	24	<5	-	-	-
	48	<5	-	-	-
	96	<5	-	-	-

Remark:

n.d. Not detected

< Means less than

This VOCs test covered only substances that can be adsorbed on Tenax-TA and that can be thermally desorbed and analyzed by gas chromatography mass spectrometric detector. If other emission occurred then these could not be monitored or with limited reliability only. The method is not optimal for very volatile compounds. For these substances small results and a higher uncertainty in the measurement cannot be excluded. VOCs without pure standards were identified by comparison with a mass spectrum obtained from a library. Calibrated as toluene equivalent.

Note:

The chamber test and analyses were done in Eurofins Testing Technology (Shenzhen) Co. Ltd.

Other Information / Remark:

N/A

TO BE CONTINUED

Eurofins Testing Technology (Shenzhen) Co., Ltd.

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Photo Attachment**2-COMPONENT CEMENTITIOUS WATERPROOFING**

END OF THE REPORT