

SAFETY DATA SHEET

Revision 3 Date Issued: 19th August 2008

1. Identification of the substance/preparation and company

Product Name: Deckshield Elastomeric Membrane, Base A

Application: Part of the Deckshield system for Car Park Decking. Base A amine component of a 2 pack, solvent free,

flexible crack bridging polyurethane membrane. For application over asphalt, concrete and screeds in combination with an appropriate primer to provide a highly flexible waterproof membrane, normally used

under a Deckshield wearing surface on car park decks or on suspended floors.

When mixed, the product is applied using a squeegee and/or roller.

Manufacturer:

Flowcrete South Africa Pty Ltd, 176 Voortrekker Road, Jacobs, Durban, 4052 Tel: +27 (0)31 4613411 Fax: +27 (0)31 4613475

E-mail: southafrica@flowcrete.com Website: www.flowcrete.com or www.flowcretesa.co.za

2. Composition/information on constituents

Chemical Name	EINECS No.	CAS No.	% by weight	Symbols and Risk Phrases
1,3-Benzenediamine, 2(or 4)-methyl-	403-240-8	106264-79-3	30 - 40	Xn; N; R20. R43. R50/53
4,6(or 2,6)-bis(methylthio)-				
Also may contain various pigments, thixotropic agents, surfactants and additives.				

See section 16 Additional information, for full text regarding symbols and Risk phrases.

3. Hazards Identification

Harmful by inhalation. Inhalation of vapours may severely damage contacted tissue and produce scarring. This hazard is most likely to arise when materials are heated, sprayed, used in a confined unventilated space or if correct handling procedures are not followed.

May cause sensitisation by skin contact.

Repeated and /or prolonged exposure may cause an allergic reaction/sensitisation. Once sensitised, an individual may produce an allergic reaction every time they are in contact with the amines in this material.

Very Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

When the base is mixed with the hardener an exothermic reaction starts (i.e. heat is generated). If the mix is not applied within 20 - 30 minutes some smoking may occur.

4. First Aid measures

Inhalation : Move to fresh air. If breathing has stopped or is laboured give assisted respiration (e.g. mouth to

mouth). If symptoms persist seek medical advice.

Prevent aspiration of vomit, turn victim's head to the side.

Skin contact: Remove contaminated clothing and shoes. Remove excess product from skin wash with water and

soap. Launder contaminated clothing before reuse. If irritation persists, seek medical advice.

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Eye Contact: Hold eyelids apart and immediately flush with plenty of water for at least 15 minutes.

Seek medical advice.

Ingestion: Seek medical advice immediately. Administer 3 – 4 glasses of water. Do not induce vomiting unless

under medical supervision.

5. Fire-fighting measures

Suitable extinguishing media : In case of large fire use: Water spray, alcohol foam.

In case of a small fire use: carbon dioxide (CO₂), dry chemical, dry sand or

limestone.

Un-Suitable extinguishing media: High volume water jet

Special exposure hazards : Burning produces noxious and toxic fumes – carbon, sulphur and nitrogen

oxides, plus ammonia.

Contact of liquid with the skin must be prevented.

Personnel in vicinity and downwind should be evacuated.

Special protective equipment : Wear self-contained breathing apparatus, butyl rubber boots, gloves and

protective suit.

Additional information: Retain expended liquids from fire fighting for later disposal.

Standard procedure for chemical fires.

Water mist may be used to cool closed containers.

6. Accidental release measures

Personal precautions: Use personal protective equipment as detailed in Section 8.

Ensure adequate ventilation. Do not breath vapours.

Environmental precautions: Prevent the product from entering drains. Avoid subsoil penetration.

Do not contaminate surface water.

Methods for cleaning up : Soak up with an inert absorbent material (e.g. sand) and dispose of as hazardous

waste in accordance with section 13. Flush area with water spray.

7. Handling and storage

Handling: Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of aerosol.

Ensure adequate ventilation, avoid breathing of vapours. Use personal protective equipment as detailed in Section 8.

Handle and open container with care. Do not eat, drink or smoke when handling.

Storage: Keep containers tightly closed and store in a cool, well-ventilated place. Protect from freezing.

Keep away from drink, food, food containers and animal feeding stuffs.

Do not store with strong acids and strong oxidising agents.

8. Exposure controls/personal protection

There are no components with Workplace Exposure Limits that apply.

Engineering measures to reduce exposure : Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:

Respiratory protection: Not required under normal conditions in a well ventilated workplace.

A respirator will be required for spray applications, viz. chemical cartridge respirator with face piece to protect against the organic vapour, NIOSH approved supplied air respirator with full face shield or self-contained breathing apparatus in pressure demand mode.

Eye protection : Full face shield with safety goggles or safety glasses underneath.

Hand protection: Rubber or plastic impermeable gloves (PVC, butyl or neoprene rubber).

Check regularly for degradation/holes and replace as necessary.

Skin and body protection: Protective suit and heavy duty work shoes.

Protective measures: Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

9. Physical and chemical properties

Appearance : Amber liquid pH : alkaline

Odour Ammoniacal Relative Density 1.0 - 1.1 at 20 °C **Boiling Point** Water solubility Some decomposition at >350 °C <1% at 20 °C Flashpoint >176°C Autoflammability No data Explosion limits : No data : 2.5 Log PoW at 20 °C

Vapour pressure : <0.133 Pa at 20 °C

10. Stability and reactivity

Material is stable.

When the base is mixed with the hardener an exothermic reaction starts (i.e. heat is generated).

If the mix is not applied within 20 - 30 minutes some smoking may occur.

Conditions to avoid : None.

Materials to avoid : Strong acids and strong oxidising agents.

Hazardous decomposition products: Ammonia produced when heated.

Irritating and toxic fumes at elevated temperatures.

Burning produces noxious and toxic fumes, sulphur oxides, nitrogen oxides,

carbon monoxide (CO) and carbon dioxide (CO₂).

11. Toxicological information

Toxicity : Oral LD₅₀ (rat) =1515 mg/kg Dermal LD₅₀ (rabbit) >2000 mg/kg

Eye irritation : Not irritating.

Skin Irritation : Not irritating.

Sensitisation : Skin Sensitiser.

12. Ecological information

Ecotoxicity : Rainbow trout, $LC_{50} = 16.9 \text{ mg/l}$ (96 hr test)

Daphnia magna, $EC_{50} = 0.9 \text{ mg/I}$ (48 hr test)

Mobility : No data.

Persistence and degradability : Not readily biodegradable.

Bioaccumalative potential : No data.

Additional ecological: Avoid subsoil penetration.

information Prevent product from entering drains, do not contaminate surface water.

13. Disposal considerations

Unused Product/waste from : Dispose

cleaning etc.

: Dispose of in accordance with local and national regulations.

Do not empty into drains, sewers or water courses.

May be incinerated in a suitable facility provided local regulations are observed.

EC Waste Catalogue (EWC) code: 08 01 11

Contaminated packaging : Well drained containers shall be disposed of as hazardous packaging waste.

Use EWC Code: 150110*.

Partially filled containers shall be disposed of as for unused product above.

14. Transport information

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.

UN No: 3082

ADR/RID

Class : 9 | Item No : 11(c) HI No : 90 | Packing Group : III

Contains : 1,3-Benzenediamine, 2(or 4)-methyl-4,6(or 2,6)-bis(methylthio)-mixture

IMO

Class: 9 Marine Pollutant: No

Packing Group : III

Contains : 1,3-Benzenediamine, 2(or 4)-methyl-4,6(or 2,6)-bis(methylthio)-mixture

IATA Keep from freezing.

Class : 9 :

Packing Group : III

Contains : 1,3-Benzenediamine, 2(or 4)-methyl-4,6(or 2,6)-bis(methylthio)-mixture

15. Regulatory information

Classification according to EEC directive. Labelling requirements.

Hazard Symbols:





Harmful Dangerous for the environment

R-phrases

R20 : Harmful by inhalation.

R43 : May cause sensitisation by skin contact.

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

\$26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28B : After contact with skin, wash immediately with plenty of water and soap. **S36/37/39** : Wear suitable protective clothing, gloves and eye/face protection.

S60 : This material and/or its container must be disposed of as hazardous waste.
S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.

Special provisions statement : None.

Hazardous component(s) which must be listed on the label

: Amine mixture

Denmark: Kodenr 00-5 (1993).

EC Directives: Dangerous Substances Directive, 67/548/EEC & adaptations

Dangerous Preparations Directive, 1999/45/EC Safety Data Sheets Directive, 91/155/EEC

Statutory Instruments: Chemicals (Hazard Information & Packaging for Supply) Regs 2002.

Control of Substances Hazardous to Health Regs 2002 Environmental Protection (Duty of Care) Regs. 1991.

Deckshield Elastomeric Base MSDS Date printed 21 May, 2009

Codes of Practice Waste Management. The Duty of Care.

Approved classification and labelling guide (Fifth edition). L131.

The compilation of safety data sheets (Third edition).

Guidance Notes Occupational Exposure Limits EH40

CHIP for Everyone HSG(108)

16. Other Information

This safety data sheet has been prepared in accordance with CHIP3. The text in section 13 has changed. The provision of Safety data sheets comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for the Chemicals, Hazard Information and Packaging Regulations). This is in addition to the Health and Safety at Work Act 1974.

Users of our products should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH).

This data sheet does not replace the obligation of the user to provide their own assessment of workplace risk as required by other Health & Safety legislation.

Sources of key data -Suppliers health & safety data sheets, European Chemicals Bureau listings, CHIP3 Approved

Supply List and CDGCPL Approved Carriage List.

EC Directive relating to the classification, packaging and labelling of dangerous substances and preparations – Classification(s) and Risk (R) phrase(s) referred to in this document:

Xn : Harmful Dangerous for the environment

R20 Harmful by inhalation.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

Training Advice

Applicators need to be trained in:-Handling and hygiene associated with use of industrial chemicals. Correct mixing and application of the product. Correct cleaning and disposal methods.

Restrictions on Use

The product is intended for use by appropriately trained applicators in industrial situations. It is not suitable for use in home DIY applications, especially because of its hazardous nature and the protective measures required.

Notes

Do not use organic solvents for skin cleansing, it will lead to defatting of the skin, skin irritation and/or dermatitis. Some solvents can be absorbed through the skin.

Beware of cross contamination where different products are in use in the same location.

Take into account the Manual Handling regulations when dealing with the mixed product.

This safety data sheet is based on our present knowledge and experience and is intended to serve as a guide for safe handling of the product regarding to health and environmental aspects.

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