



MATERIAL SAFETY DATA SHEET

Description: FloorworX Concrete Sealer Revision Number: 0

Document Number: MSDS FWXS004

ACRYLIC SEALER

GENERAL

FLOORWORX CONCRETE SEALER is an acrylic resin, solvent based liquid sealer suitable for the sealing of various substances *viz.* concrete slates etc.

FORMULATION

FLOORWORX CONCRETE SEALER is based on a selection of ultra violet resistant acrylic resins and volatile solvents to offer fast drying of the solvents to leave a firm clear coating with excellent adhesion properties. (FLOORWORX CONCRETE SEALER adheres very well to virtually all surfaces).

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATION
Appearance		A clear low to medium viscosity liquid
Odour		Characteristic of volatile solvents (Aliphatic)
Colour		Water white
Density	g/cm ³	0,875

PROPERTIES

- * Economical - litre covers 7 m²
- * Easily applied by lambswool applicator, brush or sprayer
- * Full-cure time less than 24 hours
- * High abrasive resistance
- * Will not yellow or fade
- * Easily maintained by unskilled labour

APPLICATION

NEW SURFACES - CONCRETE MUST BE DRY

Remove loose parts and dust. Apply FLOORWORX CONCRETE SEALER with suitable applicator, i.e. non-synthetic industrial paint brush, roller or spray machine. On extremely smooth concrete floors etching with SAF-MET or SAF-DOX is recommended prior to the application of the sealer. Remove dirt and oil with SAF-MET or SAF-DOX. Wash off all residues. Allow to dry completely.

Prepared by: Sabelo Dladla

Reviewed by: Doreen Gwanyuki

Status: Issued

Approved by: Doug Cutter

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Apply FLOORWORX CONCRETE SEALER with suitable applicator. Under severe oily/greasy conditions a blend of SAF-MET and SAF-HEAVY should be used.

NOTE: THIS PRODUCT IS DESIGNED TO BE USED ON CONCRETE BUT CAN ALSO BE USED ON NON-POROUS SURFACES AT THE DISCRETION OF THE USER.

THE RECOMMENDATIONS CONTAINED HERE-IN IS BASED ON LABORATORY AND INFIELD USE EXPERIENCE, AND ARE TO THE BEST OF OUR KNOWLEDGE ACCURATE. SINCE TERMS AND CONDITIONS OF ACTUAL USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS ARE MADE WITHOUT WARRANTY, EXPRESS OR IMPLIED.

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Company Details

Name	S.A.F.I.C (PTY) LTD	Tel:	+27 11 406 4000
Address	32 Steele Street, Steeledale, JHB	Fax:	+27 11 406 4252
Postal Address	PO BOX 1754, Alberton North, 1450	e-mail:	technical@safic.co.za

1. Product Identification

Trade Name	FLOORWORX CONCRETE SEALER	Product Code:	FWXS004
Chemical Family	Acrylic resin and petroleum solvent		
Chemical Name	Formulated chemical		
Product Use	Concrete sealer and hardener		
UN Number	1294 (based on the main hazardous ingredient)		

2. Composition

CAS No.	Hazardous Components	Approximate %	OSHA PEL
108-88-3	Toluene	>40	TWA 100 ppm, STEL 150 ppm
1330-20-7	Xylene	<30	TWA 100 ppm, STEL 150 ppm
EEC classification	Flammable (3), SAF- SEAL		
R Phrases	R10, R20/21/22/24, FLOORWORX CONCRETE SEALER		

3. Hazards Identification

Fire	Flammable
Inhalation	Dizziness, headache, anaesthetic effects on over exposure. Handle in well ventilated area, wear mask when handling product. HARMFUL
Skin contact	Irritant, defatting, harmful by skin absorption.
Eye contact	Burning, irritant, possible serious damage to eyes.
Ingestion	Nausea, vomiting, possible serious damage to lungs. Fatal if swallowed.

4. First Aid Measures

Inhalation	Remove patient to fresh air.
Skin contact	Rinse affected area with water, remove contaminated clothing, and apply hand cream if necessary to replenish moisture. Avoid skin contact at all times.
Eye contact	Flush with running water for at least 15 min, irrigate eyes thoroughly while lifting eyelids and rolling eyeballs. If discomfort persists, seek medical attention.
Ingestion	Do not induce vomiting. Seek medical attention.

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5. Fire Fighting Measures

Extinguish media: carbon dioxide, dry powder, foam, or water.	
Special hazard	HARMFUL on skin contact, inhalation and ingestion.
Protective clothing	Approved self contained breathing apparatus should be utilised or equivalent equipment.

6. Accidental Release Measures

Personal precaution	Avoid skin contact, and use in well ventilated areas or wear masks.
Environmental precautions	Do not discharge into sewerages, storm water drains or any places that may harm the environment.
Small spills	Remove excess with absorbent material and flush residue with water.
Large spills	Dyke ahead of liquid spill for later disposal. Prevent the discharge of large quantities of concentrated product into sewerage and watercourses.

7. Handling & Storage

Handling	Normal handling procedure for solvent based sealers to minimises personal exposure.
Storage	Store in a cool dry place. Keep container closed. No special requirements.

8. Exposure Controls/Personal Protection

Workers should have access to an eye wash fountain.	
HANDLE PRODUCT WITH CARE AT ALL TIMES.	
A) The below RESPIRATORY KIT is manufactured by 3M and is suitable for use on this product	
1) Full Face Respirators – 3M6800 – where product splashing is possible	
2) Half mask – 3M6300 – where product splashing is unlikely	
3) Combination Cartridge Type: ABEK1 – 3M6059	
4) Pre – filter N95 – 3M5N11	
5) Retainer – 3M501	
6) Note as soon as one experiences difficulty in breathing when wearing a mask, a NEW cartridge (same as the replaced one) and pre-filter is required. ADEQUATE VENTILATION IS HIGHLY RECOMMENDED AT ALL TIMES EVEN WHEN USING THE ABOVE RESPIRATORY KIT.	
B) NITRILE gloves (Ultranitril 492 – supplier – MSA) must be utilised.	
C) Safety shoes and overalls are recommended when handling FLOORWORX CONCRETE SEALER	

9. Physical and Chemical Properties

Appearance	Clear colourless liquid
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Non volatile content (%m/m)	18.00 – 22.00
Density	0.84 – 0.87 g/cm ³
Solubility (water)	Insoluble

10. Stability and Reactivity

Stability	Stable under normal conditions.
Incompatible materials	Strong oxidizing agents, heat may result to an explosion.
Hazardous decomposition products	None Known. When burning toxic harmful gases will be released.

11. Toxicological Information (based on xylene)

Toxicity	Acute oral : LD50 : 4300 mg/kg, rat
	Acute dermal : LD50 500 mg/ 24H MOD, rabbit
Carcinogenicity	No evidence of carcinogenic properties.
Mutagenicity	Mutation data reported.
Teratogenicity	An experimental teratogen.
Reproductive hazard	Not expected to impair fertility

12. Ecological Information (based on both solvents)

Acute toxicity – fish	The product is harmful to aquatic organisms.
Acute toxicity - daphnia	The product is harmful to aquatic organisms.
Acute toxicity – algae	The product is harmful to plants and other living organisms.
Biodegradability	The product is expected to biodegrade
Bioaccumulation	There's a possibility of bioaccumulation.

13. Disposal Considerations

For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options
Permissible under applicable rules, regulations, and/or laws governing your location.

14. Transport Information

UN Number	1294 (based on the main hazardous ingredient)
Substance identity no	FWXS004
ADR/RID class	Class 3: Flammable liquid
IMDG – packaging group	II
Marine Pollutant	Harmful to aquatic organisms
IMO/IMDG Classification	IMDG Class 3 Flammable liquid
IATA Classification	Class 3 Flammable liquid

15. Regulatory Information

EEC-hazard classification	Flammable (F)
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Risk phrases	R10, R20/21/22/24
Safety phrases	S16, S24/25, S36/38

16. Other Information

Reference: SABS 0265: 1999, SABS 0228: 1995, SABS ISO 11014-1: 1994, M.S.D.S. (Suppliers of raw's)
Issued by: Sabelo Dladla
EMERGENCY NUMBERS: 011 406 4000 / 082 412 2298

The information in this MSDS is based on current knowledge and experience at the date of publication. This MSDS summarises our best knowledge of the health and safety hazard information of the product and is intended only as a guide to the appropriate precautionary handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification of the product. The data relates only to the specific product designated, and does not relate to use of the product in combination with any other material or use of the product in any process. The data is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability for fitness for a particular purpose is made with respect to the product, its composition, its safety or the information contained in this MSDS sheet.

APPENDIX A

Revision Date (dd/mm/yy)	Issued By	Revision History		Revision No.
		Description	DCN No.	
15/09/2011	Technical Manager	New Issue	MSDS FWXS004	00

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