



FLOORWORX CONCRETE SEALER

MATERIAL SAFETY DATA SHEET_

DESCRIPTION

FloorworX Concrete Sealer is a solvent-based permanent sealer. FloorworX Concrete Sealer is specifically designed for clear coating and for giving the floor surface a high gloss finish. FloorworX Concrete Sealer is adapted for sealing concrete, slate and terrazzo.

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

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).

PROPERTIES

Spray buffing maintenance:

- 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.

DISCLAIMER

THIS INFORMATION IS BASED ON OUR EXPERTISE AND IS GIVEN IN GOOD FAITH BUT WITHOUT WARRANTY. FLOORWORX CANNOT ACCEPT LIABILITY FOR ANY DAMAGE, LOSS, OR ACCIDENT CAUSED DIRECTLY OR INDIRECTLY BY THIS PRODUCT.

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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. 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 TESTS AND INFIELD USE EXPERIENCE, AND IS 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.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Product Name:	FloorworX Concrete Sealer
Issue Date:	September 2011
Revision Date:	March 2015
Chemical Product Type:	Acrylic resin and petroleum solvent.
Product Use:	Concrete sealer and hardener.
UN Number:	1294 (based on the main hazardous ingredient).
Supplied by:	FloorworX Africa (Pty) Ltd
Company Location:	32 Steele Street, Steeledale, Johannesburg 2197
Chemical Formula:	Not applicable.
Emergency Contact Number:	+27 11 406 4024 (FloorworX) +27 11 406 4000 (Safic Environmental Solutions)

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2. COMPOSITION / INFORMATION ON INGREDIENTS

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	Rinse affected area with water, remove contaminated clothing, and apply hand cream if necessary to replenish moisture. Avoid skin contact at all times.
Eyes	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 METHODS

Extinguish media: carbon dioxide, dry powder, foam, or water.

Special hazards: Harmful on skin contact, inhalation and ingestion.

Protective clothing: Approved self-contained breathing apparatus should be utilised or equivalent equipment.

6. ACCIDENTAL RELEASE MEASURES – ALSO SEE SECTIONS 5, 8 & 13

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 plenty of water.

Large spills: Dyke ahead of liquid spill for later disposal. Prevent the discharge of large amounts of concentrated product into sewerage, and watercourses.

7. HANDLING AND STORAGE

Handling: Normal handling procedure for solvent based sealers to minimise personal exposure.

Storage: Store in a cool dry place. Keep container closed. No special requirements.

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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

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.
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 in an explosion.
Hazardous decomposition products:	None known. When burning toxic fumes will be released.

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11 TOXICOLOGICAL INFORMATION (BASED ON XYLENE)

Toxicity:	Acute oral : LD50 : 4300 mg/kg, rat.
Skin & eye contact:	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.

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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)
Risk phrases:	R10, R20/21/22/24
Safety phrases:	S16, S24/25, S36/38

16 OTHER INFORMATION

References: SABS 0265: 1999, SABS 0228: 1995, SABS ISO 11014-1: 1994, M.S.D.S.

(Suppliers of raw's)

PLEASE NOTE

The information and recommendations presented on this data sheet are to the best of our knowledge and belief accurate and reliable, but do not constitute a warranty. None of our representatives or agents are authorised to give any guarantee or warranty or make any representation in addition or contrary to the above, and we do not accept liability for claims of any kind for any loss including, without limitation, consequential loss, injury or damage arising from the use of the information or recommendations, or of the products which are subject to the subject matter hereof. These products are sold subject to our standard conditions of sale and tender, copies of which are available on request.

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