

COVER iTe[®]
HIGH PERFORMANCE
INDUSTRIAL FLOOR COATING

DATA SHEETS

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1. TECHNICAL DATA

1.1 DESCRIPTION:

COVERiTe® is a Silane-Modified Polymer based on α -silane technology for the impregnation of substrates or as a thin layer colour coating.

COVERiTe® Has low odour, making it suitable for use in areas adjacent to those that are occupied.

COVERiTe® imparts high stain-resistance when applied as an impregnation or as a coating (e.g against stains like coffee, tea, ketchup, orange juice, ink, red wine, household and engine oils etc). Surfaces exhibit high strength, are exceedingly scratch-resistant and impervious to typical cleaning agents.

COVERiTe® contains no VOC's which fully complies with the GBCSA's requirements for a "Green" sealant

COVERiTe® is resistant to moisture once cured

COVERiTe® is UV stabilised and guaranteed not to yellow

COVERiTe® is a 1 component system and does not require any additional catalysts

COVERiTe® is available in 1kg, 2kg, 5kg, 10kg and 20kg plastic pails and are clearly labelled as such.

1.2 SURFACE PREPARATION:

1.2.1 CEMENT-BASED SUBSTRATES:

- The substrate must be structurally sound.
- Free of loose granular particles.
- Free of excess dust.
- Dry - screed moisture levels must be below 3% using a VI-D4 Moisture meter and or below 75%RH.
- Free of any contamination, laitance, old adhesive, grease, oils, wax, sealers, and any substance that can inhibit adhesion.
- Further subfloor preparation information can be made available on request.

1.2.2 SCREED MOISTURE:

Should the screed moisture levels exceed that stipulated above, it is imperative that the substrate be prepared with **VAPORiTe® Plus**, or **VAPORiTe® Premium** depending on the application and complexity thereof. Further information pertaining to the correct product for the application can be made available on request.

1.2.3 SUBFLOOR SURFACE FINISH:

The subfloor surface should be of a good, flat, smooth appearance. Due to the glossy characteristics of Coverite all the imperfections in the subfloor will be highlighted

It is highly recommended to apply Coverite onto a surface prepared using Levelite

1.3 USAGE:

- Coverite has an approximate coverage rate of 5m²/litre when applied on a **LEVELiTe®** surface in 2 coats
- The coverage is highly dependant on the application surface and application method



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1.4 APPLICATION:

COVERiTe® formulations whether for impregnation or coating, the surface must be dry and clean. To define the optimum amount and to check applicative behavior it is recommended to prepare a separate test surface. The material can be applied with a mohair roller or a brush. Airless spray application is equally possible. The open time of the formulation examples outlined here is ~ 20 min depending on temperature and humidity. A second application (after 24 hours) will be necessary to attain a homogeneous finish. Depending on the absorbency behavior of the substrate ~ 50 - 150 g/m² are typically required for the first layer. In the case of a second layer, by far a lower amount of material will be needed.

1.5 PRECAUTIONS:

- Ensure a stable ambient temperature is maintained for a minimum of 24 hours pre, during and post Installation
- protect the floor covering from direct sunlight, vast fluctuations in temperature and moisture at all times.
- Allow the adhesive 24 hours to set before applying any load to the floor covering, this Includes but is not limited to furniture.
- The use of chair protectors is strongly recommended to minimise wear on the entire flooring system.
- Walk off mats are also recommended to minimise soiling.

1.6 CLEANING:

Tools and equipment must be washed with a solvent. It is not recommended to reuse the application tool such as rollers, but to use a new one for each coat or application.

1.7 SAFETY AND PROTECTIVE EQUIPMENT:

Safety goggles and gloves should be worn to protect the eyes and skin from accidental exposure. In the event of eye contamination, the eyes must immediately be washed out with copious amounts of clean water, and medical assistance sought. It is recommended that overalls be worn to minimise soiling of clothing.

1.8 SHELF LIFE:

- **COVERiTe®** must be stored in a cool dry place.
- **COVERiTe®** must be stored between 5°C and 30°C, and protected from frost, direct sunlight and the elements.
- **COVERiTe®** will last for 6 months unopened.

2. MATERIAL SAFETY DATA

2.1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Name of substance/preparation:

Commercial product name:COVERiTe®

2.2 USE OF SUBSTANCE / PREPARATION

Industrial/Commercial/Residential.

Used for: Impregnation and protection coating

All other areas of application to be agreed with the Application Engineering/Technical Marketing Department of the manufacturer.

2.3 COMPANY NAME

Manufacturer/distributor:.....iTe Products (Pty) Ltd

Street:.....7 Clarke Street South

State/postal code/city:.....Alrode, 1451

Telephone:.....+27 11 864 4918

Telefax:.....+27 11 864 2123

Information about the Safety Data Sheet:.....+27 11 864 4918

eMail:.....sales@iteproducts.co.za

2.4 HAZARDS IDENTIFICATION

2.4.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification (GHS):

Hazard class	Hazard category	Route of exposure	H-Code
Specific target organ toxicity - repeated exposure	Category 2		H373
Specific target organ toxicity - repeated exposure	Category 2	by inhalation	H373
Skin corrosion/irritation	Category 2		H315

2.4.2 LABEL ELEMENTS

Labelling (GHS):

Pictogram(s):



Signal Word: Warning

H-Code	Hazard Statements
H315	Causes skin irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs (respiratory tract) through prolonged or repeated exposure if inhaled.

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P-Code	Precautionary Statements
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
None	Avoid skin contact, breathing the substance, and ingestion. Use respiratory and skin protection. Do NOT use for spray application, without appropriate personal protective equipment. See the SDS or MSDS for details.
P314	Get medical advice/ attention if you feel unwell.
P311	Call a POISON CENTER/ doctor.
P405	Store locked up.
P501	Dispose of contents/container to waste disposal.

2.4.3 OTHER HAZARDS:

- The product hydrolyses under formation of methanol (CAS-Nr. 67-56-1). Methanol is classified concerning both physical and health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on the specific conditions.

2.5 COMPOSITION/INFORMATION ON INGREDIENTS

2.5.1 CHEMICAL CHARACTERIZATION (PREPARATION):

Chemical characteristics
Polysiloxane with functional groups+silane-terminated polyether.

2.5.2 INFORMATION ON INGREDIENTS:

Type	CAS No.	Substance	Content [wt. %]		Note
			Lower	Upper	
INHA		Methoxy-terminated polysiloxanes	>70.0		
VERU	2996-92-1	Phenyltrimethoxy silane		<2.0	

Type: HYD - by-product upon hydrolysis, INHA - ingredient, NEBE - by-product, MONO - residual monomer, VERU - impurity, VUL - by-product upon vulcanization. *** Note: C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH - non-hazardous, R - reproductive toxin.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product. Specific chemical identities and/or exact percentage (concentration) of the composition may have been withheld as a trade secret.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above $\geq 0.1\%$.

2.6 FIRST-AID MEASURES

2.6.1 GENERAL INFORMATION:

Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

Graph 1.1

Graph 1.2



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2.6.2 AFTER INHALATION

If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.

2.6.3 AFTER CONTACT WITH THE SKIN

If contact with skin, immediately flush skin with plenty of water or with water and soap.

2.6.4 AFTER CONTACT WITH THE EYES

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

2.6.5 AFTER SWALLOWING

If swallowed, do not induce vomiting. If swallowed, rinse mouth with water. Induce drinking plenty of water in small portions. Get medical attention immediately. Show label if possible. Indicate the possible formation of methanol.

2.7 FIRE-FIGHTING MEASURES

2.7.1 FLAMMABLE PROPERTIES:

Water spray , water mist , extinguishing powder , foam , carbon dioxide.

Property:	Value:	Method:
Flash point	103 °C (217 °F)	(ISO 2719)
Sustained combustibility	> 110 °C (> 230 °F)	(ISO 3679)
Boiling point / boiling range	241 °C (466 °F) at 961 hPa	(EU-GL.A.2)
Lower explosion limit (LEL)	not determined	
Ignition temperature	389 °C (732 °F)	(EN 14522)
NFPA Hazard Class (comb./flam.liquid)	IIIB	

2.7.2 FIRE AND EXPLOSION HAZARDS:

Combustible material. This material does not present any unusual fire or explosion hazards.

2.7.3 RECOMMENDED EXTINGUISHING MEDIA:

Water-mist, alcohol-resistant foam, dry chemical or carbon dioxide.

2.7.4 UNSUITABLE EXTINGUISHING MEDIA:

Sharp water jet.

2.7.5 SPECIAL EXPOSURE HAZARDS ARISING FROM THE SUBSTANCE OR PREPARATION ITSELF, COMBUSTION PRODUCTS, RESULTING GASES:

Hazardous decomposition products: carbon dioxide, carbon monoxide, formaldehyde, silicon dioxide, benzene and incompletely burnt hydrocarbons

2.7.6 FIRE FIGHTING PROCEDURES:

Fire fighters should wear full protective clothing including a positive pressure self-contained breathing apparatus. Cool endangered containers with water.



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2.8 ACCIDENTAL RELEASE MEASURES

2.8.1 PRECAUTIONS:

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.

HAZWOPER PPE Level: D

2.8.2 CONTAINMENT:

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/ extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

2.8.3 METHODS FOR CLEANING UP

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

2.8.4 FURTHER INFORMATION:

Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 2.9.

2.9 HANDLING AND STORAGE

2.9.1 HANDLING

Precautions for safe handling:

- Ensure adequate ventilation. Must be syphoned off in situ. Spilled substance increases risk of slipping. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction; respiratory protection). Observe information in section 8. Keep away from incompatible substances in accordance with section 10.

Precautions against fire and explosion:

- Product can separate methanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

2.9.2 STORAGE

Conditions for storage rooms and vessels:

- Observe local/state/federal regulations.

Advice for storage of incompatible materials:

- Observe local/state/federal regulations.

2.10 EXPOSURE CONTROLS AND PERSONAL PROTECTION

2.10.1 ENGINEERING CONTROLS

Ventilation:

Use only with adequate ventilation.

Local exhaust:

If spraying or other aerosol generating operations are performed, local exhaust ventilation designed to capture mists and sprays, such as a paint spray booth, is recommended.

2.10.2 ASSOCIATE SUBSTANCES WITH SPECIFIC CONTROL PARAMETERS SUCH AS LIMIT VALUES

none known

2.10.3 PERSONAL PROTECTION EQUIPMENT (PPE)

Respiratory protection:

- If spraying or other operations which generate an aerosol mist are conducted, respiratory protection for exposed personnel is recommended. Respiratory protection is required if aerosol exposure occurs during use, an APF 25 Powered Air Purifying Respirator (PAPR) equipped with P100 (HEPA) particulate filters, and multi-contaminant organic vapor cartridges must be worn. Alternatively use a positive pressure, air-supplied respirator.

Hand protection:

- Butyl rubber protective gloves, neoprene or nitrile rubber gloves.

Eye protection:

- Safety glasses with side shields or chemical safety goggles. Where there is risk of splashing: tight fitting chemical safety goggles, protective shield.

Other protective clothing or equipment:

- Additional skin protection, such as SARANEX coated Tyvek apron, over-sleeves, lab coat, coveralls, or protective suit should be worn if splashing could occur. Provide eye bath and safety shower.

2.10.4 GENERAL HYGIENE AND PROTECTION MEASURES:

Avoid contact with eyes, skin and clothing. Avoid breathing dust/vapor/mist/gas/aerosol. When handling do not eat, drink, smoke or apply cosmetics. Wash thoroughly after handling.

2.11 PHYSICAL AND CHEMICAL PROPERTIES

2.11.1 APPEARANCE

Physical state : liquid (25 °C (77 °F) / 1,013 hPa)

Colour : colourless dark

Odour : resinous



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2.11.2 SAFETY PARAMETERS

Property:	Value:	Method:
Melting point / melting range	not applicable	
Boiling point / boiling range	241 °C (466 °F) at 961 hPa	(EU-GL.A.2)
Flash point	103 °C (217 °F)	(ISO 2719)
Sustained combustibility	> 110 °C (> 230 °F)	(ISO 3679)
Ignition temperature	389 °C (732 °F)	(EN 14522)
Lower explosion limit (LEL)	not determined	
Vapour pressure	no data available	
Density	1.15 g/cm ³ at 20 °C (68 °F), at 1013 hPa	(DIN 51757)
Water solubility / miscibility	insoluble	
pH-Value	Not applicable. Insoluble in water.	
Viscosity (dynamic)	75 mPa.s at 25 °C (77 °F) shear rate: 5 - 400 1/S	(specific method)

2.11.3 FURTHER INFORMATION

Explosion limits for released methanol: 5.5 - 44% (V).

Odour limit : no data available

Thermal decomposition : no data available

2.12 STABILITY AND REACTIVITY

2.12.1 GENERAL INFORMATION:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

2.12.2 CONDITIONS TO AVOID

Moisture, heat, open flames, and other sources of ignition.

2.12.3 MATERIALS TO AVOID

Reacts with water, basic substances and acids. The reaction takes place with the formation of methanol.

2.12.4 HAZARDOUS DECOMPOSITION PRODUCTS

Methanol by hydrolysis. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation. Measurements have shown the formation of small amounts of benzene at temperatures above about 180 °C (356 °F).

2.13 TOXICOLOGICAL INFORMATION

2.13.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

2.13.1.1 GENERAL INFORMATION:

Data derived for the product as a whole are of higher priority than data for single ingredients.

2.13.1.2 ACUTE TOXICITY:

Assessment:

No data on acute inhalation toxicity is available for this product. In case of aerosol formation: Avoid inhalative exposure!

Acute toxicity estimate (ATE): ATE_{mix} (Oral): > 5000 mg/kg

2.13.1.3 SKIN CORROSION/IRRITATION

Assessment:

For this endpoint no toxicological test data is available for the whole product.

2.13.1.4 SERIOUS EYE DAMAGE / EYE IRRITATION

Assessment:

For this endpoint no toxicological test data is available for the whole product.

2.13.1.5 RESPIRATORY OR SKIN SENSITIZATION

Assessment:

For this endpoint no toxicological test data is available for the whole product.

2.13.1.6 GERM CELL MUTAGENICITY

Assessment:

For this endpoint no toxicological test data is available for the whole product.

2.13.1.7 CARCINOGENICITY

Assessment:

For this endpoint no toxicological test data is available for the whole product.

2.13.1.8 REPRODUCTIVE TOXICITY

Assessment:

For this endpoint no toxicological test data is available for the whole product.

2.13.1.9 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

2.13.1.10 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

2.13.1.11 ASPIRATION HAZARD

Assessment:

For this endpoint no toxicological test data is available for the whole product.



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2.13.1.12 FURTHER TOXICOLOGICAL INFORMATION

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other information: May cause skin irritation at prolonged/repeated contact with the product.

Data on substances:

Product of hydrolysis (Methanol):

Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.

2.14 ECOLOGICAL INFORMATION

2.14.1 ECOTOXICITY

Assessment:

For the product as a whole, no test data is available.

2.14.2 PERSISTENCE AND DEGRADABILITY

Assessment:

For the product as a whole, no test data is available.

Data on substances:

Product of hydrolysis (Methanol):

Methanol is readily biodegradable.

2.14.3 BIOACCUMULATIVE POTENTIAL

No further relevant information available

2.14.4 BIO-ACCUMULATION POTENTIAL

Assessment:

No data known.

2.14.5 MOBILITY IN SOIL

Assessment:

No data known.

2.14.6 RESULTS OF PBT AND VPVB ASSESSMENT

No data available:

2.14.7 OTHER ADVERSE EFFECTS

None known.

2.15 DISPOSAL CONSIDERATIONS

2.15.1 PRODUCT DISPOSAL

Recommendation:

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.



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2.15.2 PACKAGING DISPOSAL

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

3. THEORETICAL (VOC) CONTENT

3.1 **PRODUCT:** **COVERiTe[®]**

3.2 **ABBREVIATIONS**

S.G. = Specific Gravity

g/ml = grams/millilitre

g/l = grams/litre

3.3 **FORMULAS**

Sum of VOC's in Sealer/Primer formulation = VOC %

$VOC (g/l) = VOC \% \times S.G. \times 10$

3.4 **S.G. (g/ml) = 1.00g/ml**

3.5 **VOC % = 0%**

3.6 **$VOC (g/l) = 0 \times 1.00 \times 10 = 0g/l$**

Maximum VOC content (Specified by Green Building Council of South Africa): 50g/l



Peter Funke

Product Development Manager

4. SHORT REPORT VOC

May 2021

Short Report: COVERiTe® High Performance Industrial Floor coating

iTe Products COVERiTe® Floor coating meets the Green Building Council of South Africa's credit criteria for the following reasons:

Maximum VOC allowable (gms/litre)	50g/l
COVERiTe®	0g/l

This is based on the fact that the product contains no organic solvents.

I declare the above information to be correct

Signed:



Peter Funke

5. VOC CONFIRMATION NOTICE

April 2020

To: All interested Parties

Dear Sir/Madam,

Re: GBCSA requirements for VOC levels in flooring adhesives, sealers and primers

We hereby confirm that **COVERiTe**[®] Floor Coating Compound as manufactured by **iTe PRODUCTS** (Pty) Ltd complies with the GBCSA requirements in respect of permissible VOC levels in flooring adhesives, sealers and primers.

The attached Short Report, VOC Datasheet and this signed letter provides the necessary supporting documentation required as per page 107 of the GBCSA Technical Manual.

The Flooring Contractor must provide written confirmation that **COVERiTe**[®] is to be used in the coating of floors. Should there be any questions or queries, please contact the writer via e-mail at sales@iteproducts.co.za.

Yours faithfully,



Peter Funke

6. SUGGESTED SPECIFICATION

Install COVERITE onto substrate in accordance with the manufacturer's specifications