

# SEAL **iTe** 2K<sup>®</sup>

UV RESISTANT  
DUAL COMPONENT  
WATERPROOFING COMPOUND

## DATA SHEETS

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# 1. TECHNICAL DATA

## 1.1 DESCRIPTION:

**SEALiTe®2K** is a multi-purpose, two component, highly flexible, non-toxic cement-based damp proof sealing compound and waterproofing system.

**SEALiTe®2K** is suitable for waterproofing applications, and where minor cracks or joins are present, with the incorporation of **SEALiTe®2K** Membrane.

**SEALiTe®2K** is highly UV resistant and requires minimal maintenance after application.

**SEALiTe®2K** allows for substrate joint movement, whilst retaining its waterproofing integrity.

**SEALiTe®2K** Excellent tensile strength with high flexibility properties.

**SEALiTe®2K** Exceptional durability.

**SEALiTe®2K** Excellent adhesion to rock, metal and concrete surfaces.

**SEALiTe®2K** is Non-Toxic and non-flammable.

**SEALiTe®2K** No special storage or ventilation required during application, clean up or waste disposal.

## 1.2 SEALING APPLICATIONS:

### 1.2.1 TYPICAL APPLICATIONS FOR **SEALiTe®2K** INCLUDE:

- Water Retaining structures (fishponds, reservoirs, water canals etc.)
- Waterproofing under tiles in showers and balconies
- Concrete roofs/concrete slabs
- Damp proofing
- Waterproofing on retaining walls
- Negative pressure applications
- Damp proofing in Showers, Walls, Retaining Walls and Flower Boxes
- Sealing of Parapet walls (**SEALiTe®2K** Membrane must be used)
- Fixing of Concrete Water Holding structures (**SEALiTe®2K** Membrane must be used)
- For Restoration work in Irrigation Canals.

**NOTE:** Any cracks or expansion joints that have a movement greater than 1mm in the structure must be bridged with the **SEALiTe®2K** Membrane. Once the membrane is stuck on **SEALiTe®2K** must be allowed to cure for 1 hour at least. Once cured a second coat must be added to cover the membrane completely. The system must be allowed to dry for at least 3 days before water can be added back into the water holding structure.



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### 1.3 SURFACE PREPARATION:

The preparation of the surface is critical to ensuring a successful installation, and therefore must be strictly adhered to. This will ensure longevity and performance of the product.

- The substrate must be structurally sound
- Free of loose granular particles
- Free of excess dust
- Free of any contamination, laitance, old adhesive, grease, oils, wax, sealers, and any substance that can inhibit adhesion.
- The surface temperature must be maintained constantly above 10°C during the application.
- The surface temperature be maintained constantly below 30°C during the application.

The temperature control measure is to ensure adequate adhesion and allow the applicator the ability to apply the product with ease. If the application falls outside of these temperature ranges, the workability of the product may be affected in terms of viscosity and open time of the product.

### 1.4 MIXING:

- **SEALiTe<sup>®</sup> 2K** powdered product must be mixed with the milky white liquid supplied at a ratio of 1:1 one bag of powder to one bag of liquid
- **SEALiTe<sup>®</sup> 2K** can be mixed by hand, using a paddle stick and drill or by mixing machine until it is lump free and of a uniform consistency.
- **SEALiTe<sup>®</sup> 2K** must be kept out of direct sunlight and intense heat once mixed to ensure the pot life is sustained.

Note: the powder must always be added to the liquid polymer.

### 1.5 APPLICATION:

**SEALiTe<sup>®</sup> 2K** can be applied using a lamb's wool roller, block brush, paint brush, or screeded with a flat trowel at a rate of approximately 1kg/m<sup>2</sup> per coat, a minimum of two coats are required.

### 1.6 WARNING:

Do not ingest. Wear rubber gloves, approved dust mask and goggles when spraying **SEALiTe<sup>®</sup> 2K** onto wall surfaces. In the event of contact with eyes or skin, rinse thoroughly with cold water. Seek medical advice if irritation or discomfort persists. For further information, consult the relevant health and safety data sheet.

### 1.7 IMPORTANT NOTICE:

The information supplied in our literature or given by our employees is given in good faith. We reserve the right to update this information at any time without prior notice. We guarantee the consistent high quality of our product, however we have no control over site conditions or execution of the work of third-party contractors.

### 1.8 STORAGE:

- Do not store the product in direct sunlight or temperatures exceeding 30°C as this will cause the liquid to congeal.
- Do not store the product in temperatures below 2°C as this will cause the liquid to congeal.
- Do not store in humid, damp or wet area as this will cause the powder base to absorb moisture and harden prematurely.



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## 2. MATERIAL SAFETY DATA

### 2.1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Name of substance/preparation:

Commercial product name: ..... **SEALiTe®2K**

### 2.2 USE OF SUBSTANCE / PREPARATION

Industrial/Commercial.

Use for: Waterproofing roofs, walls, floors.

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:.....info@iteproducts.co.za

### 2.4 HAZARDS IDENTIFICATION

#### 2.4.1 CLASSIFICATION

Classification (67/548/EEC, 1999/45/EC):

- R-Phrase Description – irritant to eyes
- This product is not a dangerous preparation within the meaning of Directive 1999/45/EC.

#### 2.4.2 LABELLING

Labelling (67/548/EEC, 1999/45/EC):

- R-Phrase Description – 36/38 Irritant to eyes
- S-Phrase Description

#### 2.4.3 FURTHER HAZARDS TO HUMAN AND ENVIRONMENT:

- The product does not have any further hazards

### 2.5 COMPOSITION/INFORMATION ON INGREDIENTS

#### 2.5.1 CHEMICAL CHARACTERIZATION:

Mixture

#### 2.5.2 DESCRIPTION:

Mixture of cement and sand mixture with other non hazardous additions



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### 2.6 FIRST-AID MEASURES

#### 2.6.1 GENERAL INFORMATION:

*Under ordinary workplace conditions: No special measures required*

#### 2.6.2 AFTER CONTACT WITH THE SKIN

*Wash with plenty of water or water and soap.*

#### 2.6.3 AFTER CONTACT WITH THE EYES

*Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.*

#### 2.6.4 AFTER SWALLOWING

*If conscious, give several small portions of water to drink. Do not induce vomiting. In cases of sickness seek medical advice (show label if possible).*

#### 2.6.5 ADVICE FOR THE PHYSICIAN

*Due to its physical properties, may cause mechanical irritation. Product may agglutinate in the gastrointestinal tract. Medical assistance should be sought. Depending on the symptoms, invasive measures may be necessary.*

### 2.7 FIRE-FIGHTING MEASURES

#### 2.7.1 SUITABLE EXTINGUISHING MEDIA

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

#### 2.7.2 EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS

*Water jet .*

#### 2.7.3 SPECIAL EXPOSURE HAZARDS ARISING FROM THE SUBSTANCE OR PREPARATION ITSELF, COMBUSTION PRODUCTS, RESULTING GASES

*No further relevant information available*

#### 2.7.4 SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING

*No further relevant information available*

### 2.8 ACCIDENTAL RELEASE MEASURES

#### 2.8.1 PERSONAL PRECAUTIONS

*Wear a dust mask*

#### 2.8.2 ENVIRONMENTAL PRECAUTIONS

*Do not allow to enter into sewer, drainage or potable water systems*

#### 2.8.3 METHODS FOR CLEANING UP

*Take up mechanically and dispose of according to local/state/federal regulations.*

#### 2.8.4 FURTHER INFORMATION:

*Observe notes under section 7 with regards to safe handling*

*Observe section 8 for information on personal protective equipment.*

Graph 1.1

Graph 1.2

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### 2.9 HANDLING AND STORAGE

#### 2.9.1 HANDLING

Precautions for safe handling:

- Avoid dust formation.

Precautions against fire and explosion:

- No special measures required

#### 2.9.2 STORAGE

Conditions for storage rooms and vessels:

- No special measures required

Advice for storage of incompatible materials:

- not applicable.

### 2.10 EXPOSURE CONTROLS AND PERSONAL PROTECTION EQUIPMENT

#### 2.10.1 EXPOSURE LIMITS

#### 2.10.2 EXPOSURE LIMITED AND CONTROLLED

#### 2.10.3 EXPOSURE IN THE WORK PLACE LIMITED AND CONTROLLED

General protection and hygiene measures:

- Do not breathe dust. Do not eat when handling.
- Personal protection equipment
- Respiratory protection
- In case of dust formation: fine dust mask without protection rating .
- Eye protection
- Recommendation in case of dust formation: tight fitting protective goggles.

#### 2.10.4 EXPOSURE TO THE ENVIRONMENT LIMITED AND CONTROLLED

Prevent material from entering surface waters and soil.

### 2.11 PHYSICAL AND CHEMICAL PROPERTIES

#### 2.11.1 GENERAL INFORMATION

Physical state / form.....: solid - powder

Colour .....: grey - brown

Odour .....: odourless

#### 2.11.2 IMPORTANT INFORMATION ABOUT THE PROTECTION OF HEALTH, SAFETY AND THE ENVIRONMENT

Property: Value: Method:

Melting point / melting range .....: not applicable

Boiling point / boiling range .....: not applicable

Flash point.....: not applicable

Auto-ignition temperature.....: product is not self-igniting

Lower explosion limit (LEL) .....: not applicable

Vapour pressure.....: not applicable

Bulk density .....: 1300-1500 kg/m<sup>3</sup> (DIN EN ISO 60)

Water solubility / miscibility.....: Insoluble sets in water

pH-Value .....: 11

Viscosity (dynamic) .....: not applicable



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## 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

*none known.*

### 2.12.3 MATERIALS TO AVOID

*none known.*

### 2.12.4 HAZARDOUS DECOMPOSITION PRODUCTS

*If stored and handled properly: none known.*

*At increased temperature: acetic acid*

## 2.13 TOXICOLOGICAL INFORMATION

### 2.13.1 GENERAL INFORMATION:

*According to our present state of knowledge no damaging effect expected when treated in accordance with standard industrial practices and local regulations where applicable.*

### 2.13.2 TOXICOLOGICAL TESTS

*Acute toxicity*

*Primary irritation:*

- *Eyes: irritating effect*

*Sensitization:*

- *no sensitizing effects known*

*Further information:*

*The product shows the following aspects:*

- *Irritant*

## 2.14 ECOLOGICAL INFORMATION

### 2.14.1 ECOTOXICITY

*No expected damaging effects to aquatic organisms.*

*Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):*

*According to current knowledge adverse effects on water purification plants are not expected.*

### 2.14.2 MOBILITY

*No further relevant information available*

### 2.14.3 BIO-ACCUMULATION POTENTIAL

*No adverse effects expected.*

### 2.14.4 OTHER HARMFUL EFFECTS

### 2.14.5 ADDITIONAL INFORMATION

*General information:*



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**2.15 DISPOSAL CONSIDERATIONS**

**2.15.1 MATERIAL**

*Do not allow product to reach sewerage system*

*Disposal should be in accordance with local, state or national legislation.*

*Mix product residue with water, allow to harden and dispose of as construction waste*

**2.15.2 UNCLEANNED PACKAGING**

*Recommendation:*

- *Completely discharge packaging. Paper packaging may be recycled*

**2.16 TRANSPORT INFORMATION**

**2.16.1 LAND TRANSPORT ADR AND RID**

*Road ADR:*

*Valuation .....: Not regulated for transport*

*Railway RID:*

*Valuation .....: Not regulated for transport*

**2.17 REGULATORY INFORMATION**

**2.17.1 NATIONAL REGULATIONS**

*National and local regulations must be observed.*

*For information on labelling please refer to section 2 of this document.*

**2.18 OTHER INFORMATION**

**2.18.1 MATERIAL**

*The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.*

**2.18.2 FURTHER INFORMATION:**

*Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.*



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## 3. THEORETICAL (VOC) CONTENT

### 3.1 PRODUCT:

**SEALiTe<sup>®</sup> 2K Moisture Barrier/Waterproofing compound**

### 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



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## 4. SHORT REPORT VOC

April 2020

### Short Report: Product SEALiTe®2K Waterproofing Compound

*iTe Products SEALiTe®2K Waterproofing meets the Green Building Council of South Africa's credit criteria for the following reasons:*

Maximum VOC allowable (gms/litre)	50g/l
<b>SEALiTe®2K</b>	0g/l

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

*I declare the above information to be correct*

Signed:

A handwritten signature in black ink, appearing to read 'Peter Funke', is written over a light blue horizontal line.

**Peter Funke**



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## 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 **SEALiTe®2K** Moisture Barrier/Waterproofing 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 **SEALiTe®2K** is to be used in the moisture / waterproofing of buildings.

Should there be any questions or queries, please contact the writer via e-mail at [sales@iteproducts.co.za](mailto:sales@iteproducts.co.za).

Yours faithfully,

A handwritten signature in black ink, appearing to read 'Peter Funke', is written over a light blue horizontal line.

**Peter Funke**