

# DATA SHEETS

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# 1. TECHNICAL DATA

## 1.1 DESCRIPTION

**BONDiTe**<sup>®</sup> is a ready-to-use polymer based primer and keying agent that has been specifically designed as a bonding agent for self-levelling compounds. **BONDiTe**<sup>®</sup> is an essential component in the **LEVELiTe**<sup>®</sup> self-levelling system which must be applied as a primer for **LEVELiTe**<sup>®</sup> self-levelling compounds. It has four functions - **LEVELiTe**<sup>®</sup> adhesion promoter, to bind any dustiness in the substrate, to prevent any air bubbles trapped in the substrate from migrating to the surface causing pin-holes, and also to promote the flow of the self leveller over the surface. **BONDiTe**<sup>®</sup> dries very fast and is typically ready for application of self-levelling compound in approximately twenty minutes.

**BONDiTe**<sup>®</sup> contains no VOC's and is totally compliant with green building requirements.

## 1.2 APPLICATION

Stabilizing of friable surfaces or as a primer for **LEVELiTe**<sup>®</sup> self-levelling screed: Apply neat **BONDiTe**<sup>®</sup>, ensuring that the surface is thoroughly coated, using a block brush or roller. It must be left to dry completely before starting to apply the levelling compound

## 1.3 MIXING

**BONDiTe**<sup>®</sup> is pre-mixed and does not require mixing.

## 1.4 COVERAGE

When used as a primer, **BONDiTe**<sup>®</sup> will cover between 4 and 5m<sup>2</sup> per litre depending the smoothness of the screed.

## 1.5 GENERAL

All data supplied is based on laboratory tests conducted at 20° C, and 50% Relative Humidity. On-site atmospheric conditions may require adaptation to suite circumstances.

## 1.6 WARNING

Do not ingest. Keep away from children and pets. Do not empty into a drain. Wear rubber gloves, and in the event of prolonged contamination, rinse thoroughly with cold water. Seek medical attention if irritation persists. Consult our Material Safety Data Sheet for more information.

## 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 products, however, we have no control over the site conditions or execution of the work. We accept no liability for any loss or damage which may arise as a result thereof.

## 2. SPECIFICATIONS SHEET

### 2.1 COMPOSITION & FEATURES

**BONDiTe**<sup>®</sup> is manufactured from a Polymer based emulsion.

**BONDiTe**<sup>®</sup> is water based and contains no organic volatiles (VOC's) and is therefore compliant with GBCSA's requirements.

**BONDiTe**<sup>®</sup> is packed in 5 litre and 25 litre PVC containers.

Specific Gravity: 1

Solids Content:

**BONDiTe**<sup>®</sup> is Hydrophobic and will not re-emulsify in the presence of moisture. Moisture will not have any detrimental effect on it, thereby ensuring its integrity and preventing subsequent damage.

Once dried, **BONDiTe**<sup>®</sup> is resistant to most chemicals, including two part polyurethane adhesives, and will not be affected by being in contact with it.

### 2.2 USES

**BONDiTe**<sup>®</sup> is a multi-purpose concrete Primer and Sealer. It improves adhesion of substances such as adhesive to the concrete.

It's binding properties are superior to older technology primers and bonding agents such as SBR Latices and is used to prevent delamination or separation. This binding prevents the release of any dust or particles from the concrete substrate onto which it has been applied.

**BONDiTe**<sup>®</sup> is used for mortar and concrete strengthening as a bonding agent.

### 2.3 MIXING & APPLICATION

**BONDiTe**<sup>®</sup> is pre-mixed and does not require mixing. It is best applied with a mohair roller or brush.

### 2.4 COVERAGE

When used as a primer or sealer, **BONDiTe**<sup>®</sup> will cover between 4 and 6m<sup>2</sup> per litre depending the smoothness of the substrate.

### 2.5 GENERAL

All data supplied is based on laboratory tests conducted at 20° C, and 50% Relative Humidity.

On-site atmospheric conditions may require adaptation to suite circumstances.

### 2.6 WARNING

Do not ingest. Keep away from children and pets. Wear rubber gloves, and in the event of prolonged contamination, rinse thoroughly with cold water. Seek medical attention if irritation persists. Consult our Material Safety Data Sheet for more information.

### 2.7 IMPORTANT NOTICE

The information supplied in our literature or given by our employees is given in good faith.

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## 3. MATERIAL SAFETY DATA

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

Name of substance/preparation:

Commercial product name:.....**BONDiTe**<sup>®</sup>

#### 3.1.1 USE OF SUBSTANCE / PREPARATION

Industrial/Commercial/Residential.

Used for: Primer for self-leveling compound applications.

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

#### 3.1.2 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

### 3.2 HAZARDS IDENTIFICATION

HAZCHEM CODE: 2Z-NON HAZARDOUS

#### 3.2.1 CLASSIFICATION

This product is not a dangerous preparation within the meaning of Directive 1999/45/EC

R-Phrase Description – Nil

This product is not classified as dangerous according to EC Directive 88/379EEC and subsequent adaptations (CHIP 2 Regulations in the UK).

#### 3.2.2 LABELLING

Labelling (67/548/45/EC):

R-Phrase Description – Nil

S-Phrase Description—Nil

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

The product does not have any further hazards

### 3.3 COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.3.1 CHEMICAL CHARACTERIZATION:

Mixture

#### 3.3.2 DESCRIPTION:

Copolymer of acrylic acid ester +styrene (dispersion in water)

EC-No. CAS No. Material Content % Warning Label

9043-30-5 Alpha-i-tridecyl-omega-hydroxypolyglycoether <3 Xn R22-41

### **3.4 FIRST-AID MEASURES**

General information - Under ordinary workplace conditions no special measures required.

#### **3.4.1 INHALATION OF VAPOUR**

No special measures required.

#### **3.4.2 AFTER CONTACT WITH THE SKIN**

Wash with plenty of water and soap. In case of continuous irritation seek medical advice.

Remove soiled clothing

#### **3.4.3 AFTER CONTACT WITH THE EYES**

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

#### **3.4.4 AFTER SWALLOWING**

Seek immediate medical attention.

### **3.5 FIRE-FIGHTING MEASURES**

**3.5.1 THE PRODUCT IS AN AQUEOUS DISPERSION AND IS NOT COMBUSTIBLE. DRIED UP MATERIAL IS COMBUSTIBLE.**

### **3.6 ACCIDENTAL RELEASE MEASURES**

#### **3.6.1 PERSONAL PRECAUTIONS**

Wear personal protective equipment. Be aware of slippage.

#### **3.6.2 ENVIRONMENTAL PRECAUTIONS**

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

#### **3.6.3 METHODS FOR CLEANING UP**

Large spillages should be contained and pumped into a receiving vessel.

Small spillages should be absorbed on an inert absorbent (sand, sawdust, diatomite)

#### **3.6.4 FURTHER INFORMATION:**

Observe notes under section 7 with regards to safe handling

Observe section 8 for information on personal protective equipment.

For disposal methods refer to section 13.

### **3.7 HANDLING AND STORAGE**

#### **3.7.1 HANDLING**

No special precautions needed with normal housekeeping. Spilled substance increases the risk of slipping

#### **3.7.2 STORAGE**

Conditions for storage rooms and vessels:

Protect from frost and direct sunlight.

### **3.8 EXPOSURE CONTROLS AND PERSONAL PROTECTION EQUIPMENT**

EXPOSURE LIMITS

Not applicable

### 3.8.1 EXPOSURE CONTROLS

*Do not eat or drink when handling.*

*Personal protection equipment*

*Respiratory protection*

*Not required*

*Hand protection*

*For frequent contact, wear impermeable gloves*

*Eye protection*

*Goggles, face visor or safety glasses is recommended.*

*Skin protection*

*Not required.*

### 3.8.2 EXPOSURE TO THE ENVIRONMENT LIMITED AND CONTROLLED

### 3.8.3 PREVENT MATERIAL FROM ENTERING SURFACE WATERS AND SOIL.

## 3.9 PHYSICAL AND CHEMICAL PROPERTIES

### 3.9.1 GENERAL INFORMATION

*Physical state / form.....: milky white liquid*

*Odour .....: slight*

*pH..... : 7.5—8.5*

*Boiling Point.....: Approx 100°C*

*Melting .....: Approx 0°C*

*Flashpoint.....: Not Applicable*

*Flammability .....: "*

*Auto-flammability.....: "*

*Explosion Hazard.....: "*

*Oxidising Properties .....: "*

*Vapour Pressure .....: Approx 23 hPa at 20°C*

*Relative density.....: Approx 1.03gm/cm<sup>3</sup>*

*Solubility in water.....: moderately soluble*

*Viscosity (dynamic): 6000—12000mPa.s at 23°C (Brookfield, spindle 5/20 rpm)*

## 3.10 STABILITY AND REACTIVITY

### 3.10.1 GENERAL INFORMATION:

*The product is stable if stored and handled in accordance with standard industrial practices.*

## 3.11 TOXICOLOGICAL INFORMATION

### 3.11.1 GENERAL INFORMATION:

*Long term experience of this product type indicates no danger to health when properly handled under industrial conditions, and acute toxicity effects are not expected after a single oral exposure.*

## **3.12 TOXICOLOGICAL INFORMATION**

### **3.12.1 GENERAL INFORMATION:**

*Long term experience of this product type indicates no danger to health when properly handled under industrial conditions, and acute toxicity effects are not expected after a single oral exposure.*

## **3.13 ECOLOGICAL INFORMATION**

### **3.13.1 ECOTOXICITY**

*The product is not classified as dangerous to the environment according to EC directive 93/21/EEC.*

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

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

## **3.14 DISPOSAL CONSIDERATIONS**

### **3.14.1 MATERIAL**

*The product and waste water containing product should not be discharged directly into drains and waterways without treatment. The polymer content may be separated in a suitable coagulation and purification plant. Details available on request.*

*Disposal of the product, solid waste and packaging should be in accordance with local, state or national legislation and undertaken by an authorized contractor.*

## **3.15 TRANSPORT INFORMATION**

*The product is not classified as hazardous according to International Transport Regulations*

## **3.16 REGULATORY INFORMATION**

*The product is not classified as Dangerous according to EC Directive 88/379/EEC (including subsequent amendments) and requires no special labelling*

## **3.17 OTHER INFORMATION**

### **3.17.1 MATERIAL**

*This Material Safety Data Sheet conforms to EC Directive 91/155 EEC and 93/112EC. 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.*

### **3.17.2 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.*

## **4. THEORETICAL (VOC) CONTENT**

### **4.1 PRODUCT:**

**BONDiTe<sup>®</sup> LEVELiTe<sup>®</sup> / Primer**

### **4.2 ABBREVIATIONS**

S.G. = Specific Gravity

g/ml = grams/millilitre

g/l = grams/litre

### **4.3 FORMULAS**

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

VOC (g/l) = VOC % x S.G. x 10

### **4.4 S.G. (G/ML) = 1.00G/ML**

### **4.5 VOC % = 0%**

### **4.6 VOC (G/L) = 0 X 1.00 X 10 = 0G/L**

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

Peter Funke

Product Development Manager



## 5. SHORT REPORT VOC

7 August 2014

### **Short Report: Product BONDiTe<sup>®</sup> Sealer/Primer**

iTe Products **BONDiTe<sup>®</sup>** sealer meets the Green Building Council of South Africa's credit criteria for the following reasons:

Maximum VOC allowable (gms/litre)	50g/l
<b>BONDiTe<sup>®</sup></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:



Shaun Van Heerden

## 6. VOC CONFIRMATION NOTICE

7 August 2014

To: All interested Parties

Dear Sir/Madam,

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

We hereby confirm that **BONDiTe**<sup>®</sup> Sealer/Primer 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 **BONDiTe**<sup>®</sup> is to be used in the installation of the floor covering.

Should there be any questions or queries, please contact the writer at 082 772 9137 or via e-mail at sales@iteproducts.co.za

Yours faithfully,



Shaun Van Heerden

## 7. WARRANTY

**iTe PRODUCTS BONDiTe<sup>®</sup>** is manufactured to comply with the required standards for use as a primer with self levelling screeds in respect of Flow promotion, substrate binding and preventing air bubbles from surfacing during setting.

This warranty is based on the substrate being sound, dry and free of contamination. All application is to be carried out in strict compliance with the application methodology in the data sheet as issued.

**iTe PRODUCTS** further warrants that the products are manufactured to strict quality control standards and that the products supplied are free of defect. We cannot be held responsible for failure due to the substrate failing, or physical or excessive mechanical damage occurring to the applied product.

## 8. SUGGESTED SPECIFICATION

Prime the substrate with a coat of **BONDiTe<sup>®</sup>** primer prior to the application of **LEVELiTe<sup>®</sup>** self-levelling compound in accordance with the manufacturer's specifications.