

# DURAL iTe<sup>®</sup> D50

CEMENT-BASED  
MICRO SKIM COAT

## DATA SHEETS

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# **DURALiTe<sup>®</sup>D50**

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## 1. TECHNICAL DATA

### 1.1 DESCRIPTION

**DURALiTe<sup>®</sup>D50 white cement-based finishing plaster** is a durable external and internal finishing compound for walls. **DURALiTe<sup>®</sup>D50** is designed to be applied over new or existing sand cement plasters - scratched, smooth or rough wall finishes, or painted surfaces, to create a silky-smooth appearance. **DURALiTe<sup>®</sup>D50** will not swell or soften when it gets wet, as it is cement based. **DURALiTe<sup>®</sup>D50** can be sandpapered.

### 1.2 SURFACE PREPARATION

**NOTE: For both external as well as internal application.** The surface must be hard, sound, dry and free of dust, dirt and other materials such as old gypsum plasters, grease, oil or any other contaminant.

#### 1.2.1 DURALiTe<sup>®</sup>D50 OVER PREVIOUSLY PAINTED SURFACES:

All previously painted surfaces must be cleaned properly by means of high pressure washer (externally) or scraper and brush/wire brush on internal surfaces. Remove all loose/flaky paint off the wall. Once cleaned apply **DURALiTe<sup>®</sup>D50** straight over in the manner set out under section **1.4 APPLICATION**. Where enamel and epoxy paints are used prime with **iTe SLURRY Keying Promoter** prior to application of **DURALiTe<sup>®</sup>D50**.

#### 1.2.2 DURALiTe<sup>®</sup>D50 OVER NEW OR EXISTING SAND CEMENT PLASTERED WALLS:

The plaster must be fully cured before applying **DURALiTe<sup>®</sup>D50**. Scrape/Brush off any loose debris off the wall. Slightly wet the wall to prevent instant water absorption out of the **DURALiTe<sup>®</sup>D50**.

**DURALiTe<sup>®</sup>D50** is then applied in two coats, first one being a scraper coat and allowed to dry. The second finishing layer is applied at 3mm thickness.

#### 1.2.3 DURALiTe<sup>®</sup>D50 OVER CONCRETE SURFACES:

It is of the utmost importance to remove all releasing oils or grease from the concrete before applying **DURALiTe<sup>®</sup>D50**, by degreasing the surfaces with degreasing soap and rinsing afterwards with water. Once this is done prime the surface with **iTe SLURRY Keying Promoter**.

#### 1.2.4 DURALiTe<sup>®</sup>D50 OVER GYPSUM - OR FIBRE CEMENT BOARD:

Use joining tape or fine wire mesh over butt joints. Apply **DURALiTe<sup>®</sup>D50** over the joint allowing it to semi set up. Once this has occurred apply a 3mm **DURALiTe<sup>®</sup>D50** layer over the entire surface to achieve a smooth and even finish.

### 1.3 MIXING

Use 14.0 litres of water per 35 kg or 4 litres per 10 kg bag. Do NOT over-water. Add the powder to the required amount of clean cool water in a clean mixing container whilst using an electric paddle mixer until a lump free plaster is produced. This will take approximately 3 minutes. Stop the mixer and scrape the inside of the mixing vessel to allow any unmixed product to fall onto the paste. Allow product to slake for 5 minutes. Briefly remix the **DURALiTe<sup>®</sup>D50** and then plaster onto the desired surface.

Mixed **DURALiTe<sup>®</sup>D50** should be applied within 30 minutes at 20°C after mixed. This time is extended at lower temperatures and reduced at higher temperatures.



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## **1.4 APPLICATION**

**DURALiTe<sup>®</sup> D50** can be applied over existing paint, sand cement plaster, concrete, fibre cement as well as gypsum boards. The following application method is used once preparation is complete. (see **1.2 Surface Preparation** for different surfaces):

Apply **DURALiTe<sup>®</sup> D50** with a trowel in an even and smooth manner, covering the entire surface area. Allow **DURALiTe<sup>®</sup> D50** set up – test by touching the surface, if no indent shows and no product is set on your hand it is ready to be floated. Wetting the surface slightly with a plaster brush, use a rubber float to flatten area and bring fine material to the surface. Strike off excess fines with a steel float and smooth off the surface. Allow surface to harden then polish with a steel float.

Flash off/set up time can take longer/shorter depending on weather conditions. It is also affected by the porosity of the surface onto which **DURALiTe<sup>®</sup> D50** is applied.

## **1.5 THICKNESS**

Recommended thickness ranges from 3mm to 10 mm thickness.

## **1.6 COVERAGE**

Approximately 1.4 kg of **DURALiTe<sup>®</sup> D50** per 3 mm thickness per m<sup>2</sup>. E.g. one 35kg bag of **DURALiTe<sup>®</sup> D50** will give enough material to cover approximately 25m<sup>2</sup> at an average thickness of 3mm.

**NOTE:** The coverage figure is based on a relatively flat surface. Additional material should be allowed for where the surface is rough or uneven.

## **1.7 GENERAL**

All data given was tested at a room temperature of 20°C and 50% humidity. Please be aware that the technical data may alter if the climatic conditions are in contrast to that in which the product has been tested, either hardening more quickly or setting slower.

## **1.8 WARRANTY**

**DURALiTe<sup>®</sup> D50** is guaranteed to be free of any manufacturing defect. **iTe Products** further warrants that if **DURALiTe<sup>®</sup> D50** is applied in accordance with the relevant method statement issued for the specific project, by an approved applicator, the system is guaranteed for the life of the application.

## **1.9 WARNING**

Do not ingest. Keep away from children and pets. Do not empty into a drain. Wear rubber gloves, and in the event of contamination, rinse thoroughly with cold water. Seek medical advice if irritation or discomfort persists. For further information, consult the relevant health and safety data sheet.

## **1.10 GREEN BUILDING COUNCIL VOC REQUIREMENTS**

**DURALiTe<sup>®</sup> D50** contains no Volatile Organic Compounds and therefore is totally compliant with all relevant requirements to be classed as “green.” The standard short report, theoretical VOC content declaration and VOC confirmation notice is available on request or can be downloaded from our website - [www.iteproducts.co.za](http://www.iteproducts.co.za).

## **1.11 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.



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## **2. MATERIAL SAFETY DATA**

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

Name of substance/preparation:

Commercial product name:.....**DURALiTe<sup>®</sup>D50**

#### **2.1.1 USE OF SUBSTANCE / PREPARATION**

Residential/Industrial/Commercial.

Use for: Skimming/plastering wall surfaces.

Available in 10Kg and 35Kg Paper Bags

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

#### **2.1.2 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

### **2.2 HAZARDS IDENTIFICATION**

#### **2.2.1 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.

#### **2.2.2 LABELLING**

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

R-Phrase Description – 36/38 Irritant to eyes

S-Phrase Description

#### **2.2.3 FURTHER HAZARDS TO HUMAN AND ENVIRONMENT:**

The product does not have any further hazards

### **2.3 COMPOSITION/INFORMATION ON INGREDIENTS**

#### **2.3.1 CHEMICAL CHARACTERIZATION:**

Mixture

#### **2.3.2 DESCRIPTION:**

Mixture of cement and sand mixture with other nonhazardous additions



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## **2.4 FIRST-AID MEASURES**

### **2.4.1 GENERAL INFORMATION:**

*Under ordinary workplace conditions: No special measures required.*

### **2.4.2 AFTER CONTACT WITH THE SKIN**

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

### **2.4.3 AFTER CONTACT WITH THE EYES**

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

### **2.4.4 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).*

### **2.4.5 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.*

## **2.5 FIRE-FIGHTING MEASURES**

### **2.5.1 SUITABLE EXTINGUISHING MEDIA**

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

### **2.5.2 EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS**

*Water jet .*

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

*No further relevant information available*

### **2.5.4 SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING**

*No further relevant information available*

## **2.6 ACCIDENTAL RELEASE MEASURES**

### **2.6.1 PERSONAL PRECAUTIONS**

*Wear a dust mask*

### **2.6.2 ENVIRONMENTAL PRECAUTIONS**

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

### **2.6.3 METHODS FOR CLEANING UP**

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

### **2.6.4 FURTHER INFORMATION:**

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

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

## **2.7 HANDLING AND STORAGE**

### **2.7.1 HANDLING**

**Precautions for safe handling:**

*Avoid dust formation.*



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**Precautions against fire and explosion:**

No special measures required

## 2.7.2 STORAGE

**Conditions for storage rooms and vessels:**

No special measures required

**Advice for storage of incompatible materials:**

not applicable .

## 2.8 EXPOSURE CONTROLS AND PERSONAL PROTECTION EQUIPMENT

### 2.8.1 EXPOSURE LIMITS

### 2.8.2 EXPOSURE LIMITED AND CONTROLLED

#### 2.8.2.1 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 .

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

Prevent material from entering surface waters and soil.

## 2.9 PHYSICAL AND CHEMICAL PROPERTIES

### 2.9.1 GENERAL INFORMATION

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

Colour .....: off white

Odour .....: odourless

### 2.9.2 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.....: 900 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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## 2.10 STABILITY AND REACTIVITY

### 2.10.1 GENERAL INFORMATION:

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

### 2.10.2 CONDITIONS TO AVOID

*none known .*

### 2.10.3 MATERIALS TO AVOID

*none known .*

### 2.10.4 HAZARDOUS DECOMPOSITION PRODUCTS

*If stored and handled properly: none known .*

*At increased temperature: acetic acid .*

## 2.11 TOXICOLOGICAL INFORMATION

### 2.11.1 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.*

### 2.11.2 TOXICOLOGICAL TESTS

#### **Acute toxicity**

#### **Primary irritation:**

*Eyes: irritating effect*

#### **Sensitization:**

*no sensitizing effects known*

#### **Further information:**

*The product shows the following aspects:*

*Irritant*

## 2.12 ECOLOGICAL INFORMATION

### 2.12.1 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.*

### 2.12.2 MOBILITY

*No further relevant information available*

### 2.12.3 BIO-ACCUMULATION POTENTIAL

*No adverse effects expected.*

### 2.12.4 OTHER HARMFUL EFFECTS

### 2.12.5 ADDITIONAL INFORMATION

*General information:*



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## 2.13 DISPOSAL CONSIDERATIONS

### 2.13.1 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*

### 2.13.2 UNCLEANNED PACKAGING

#### **Recommendation:**

*Completely discharge packaging. Paper packaging may be recycled*

## 2.14 TRANSPORT INFORMATION

### 2.14.1 LAND TRANSPORT ADR AND RID

Road ADR:

Valuation .....: Not regulated for transport

Railway RID:

Valuation .....: Not regulated for transport

### 2.14.2 TRANSPORT BY SEA IMDG-CODE

Valuation .....: Not regulated for transport

Marine Pollutant .....: no

### 2.14.3 AIR TRANSPORT ICAO-TI/IATA-DGR

Valuation .....: Not regulated for transport

## 2.15 REGULATORY INFORMATION

### 2.15.1 NATIONAL REGULATIONS

*National and local regulations must be observed.*

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

## 2.16 OTHER INFORMATION

### 2.16.1 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.*

## 2.17 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:**

**DURALiTe<sup>®</sup> D50** Plaster Skimming 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**

1 September 2018

### **Short Report: Product DURALiTe D50 Plaster Skimming Compound**

iTe Products **DURALiTe<sup>®</sup>D50** Plaster Skimming Compound meets the Green Building Council of South Africa's credit criteria for the following reasons:

Maximum VOC allowable (gms/litre) 50g/l  
**DURALiTe<sup>®</sup>D50** 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



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## 5. VOC CONFIRMATION NOTICE

1 September 2018

To: All interested Parties

Dear Sir/Madam,

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

We hereby confirm that **DURALiTe<sup>®</sup>** Plaster Skimming Compound as manufactured by iTe Products (Pty) Ltd comply 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 Applicator or Contractor must provide written confirmation that **DURALiTe<sup>®</sup> D50** is to be used in the application.

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



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## 6. SUGGESTED SPECIFICATION

Apply \_\_\_\_\_m<sup>2</sup> **DURALiTe<sup>®</sup> D50** Plaster Skimming Compound in accordance with the manufacturer's specifications to a thickness of \_\_\_\_\_mm after surface preparation is complete.