

DATA SHEETS

Contents

1.	TECHNICAL DATA	2
2.	MATERIAL SAFETY DATA	4
3.	METHOD STATEMENT	9
	- DECORITe SLU APPLICATION	
	- DECORITe SLU OVER CERAMIC TILES	
	- BULKING UP DECORiTe SLU	
4.	THEORETICAL (VOC) CONTENT	13
5.	SHORT REPORT VOC	14
6.	VOC CONFIRMATION NOTICE	15
7.	WARRANTY	16





1. TECHNICAL DATA

1.1 DESCRIPTION

DECORITe® SLU self-levelling floor screed compound is a free-flowing self-levelling compound developed for heavy commercial and light industrial applications that sets to >20MPa. **DECORITe® SLU** has been specifically formulated for levelling and smoothing rough or uneven sub-floors prior to the application of **DECORITe® CEMOX** floor finish and is suitable for use on cementitious screeds, concrete power floated surfaces, hardened old adhesive residues and soundly adhered ceramic and similar surfaces. Its high strength formulation has been designed to repair a variety of sub-floor types, including cement/sand screeds, and concrete floors. The applied compound can be walked on after 2 to 3 hours. Application of the **DECORITe® CEMOX** can be commenced the following day.

DECORITe® SLU can be applied in a feathered finish down to approximately 0,3mm, up to 10mm thick in one application. **The standard application for DECORITe® CEMOX is 5mm**. It is resistant to moisture once cured, and will not swell or delaminate. Final strength is >20MPa.

1.2 SURFACE PREPARATION

NOTE: For internal use only due to the inability to control environmental factors such as wind or heat. It is recommended that direct to ground sub-floors be protected from rising damp to prevent moisture related problems with **DECORITe® CEMOX** finishes. 3% moisture content is the maximum tolerance for the **DECORITe®** finish. **DECORITe®SLU** is resistant to rising moisture and should not swell or delaminate if exposed to reasonable moisture. **VAPORITe®+PLUS** epoxy moisture barrier system has been specifically developed for moisture levels exceeding 3%. Please refer to the **VAPORITe®+PLUS** data sheet. The surface must be hard, sound, dry and free of dust, dirt and other materials such as grease, oil and paint. Due to its flow characteristics, sealing strips should be placed at doorways or where the levelling compound is not desired.

1.3 PRIMING

BONDITE® primer and bonding agent is an essential component in priming the substrate prior to application of **DECORITE®SLU**. It acts as a pore sealer which will maintain the flow life and prevent air bubbles rising through the applied **DECORITE®SLU**. Accordingly it is necessary to prime all surfaces with **BONDITE®**. With very smooth non-absorbent sub-floors e.g. power floated floors, epoxy coated water barriers, and ceramic tiles it is essential to apply **iTe SLURRY®** or to lightly grind the surface to promote adhesion. When the slurry is dry, the surface should be ready for application of the **DECORITE®SLU** levelling compound.

1.4 MIXING

Use 5.0 litres of water per bag. Do NOT over-water. Add the powder to the required amount of clean cool water in a clean mixing container whilst using a +/-600 rpm electric paddle mixed until a lump free screed is produced. This will take approximately 3 to 4 minutes. Stop the mixer and scrape the inside of the mixing vessel to allow any unmixed product to fall onto the paste. Briefly remix the **DECORITe®SLU** and then discharge onto the affected floor.

Mixed **DECORITe®SLU** should be applied within 5 minutes at 20°C. This time is extended at lower temperatures and reduced at higher temperatures.





1.5 APPLICATION

Pour the mixed **DECORITe®SLU** onto the prepared sub-floor. The mixed mortar will flow out and self-level. Use a suitable notched epoxy rake to achieve a 5mm application. A long handled spiked roller must be used to prevent air blisters from marring the finished surface. **DECORITe®SLU** has excellent self-healing properties which extend for some 30 minutes or longer after the pour, which minimises cold joints and surface irregularities.

1.6 THICKNESS

DECORITe® SLU must be applied to a minimum of 5mm.

1.7 COVERAGE

Approximately 7.5 kg of **DECORITe**[®]**SLU** per 5 mm thickness per m². E.g. one bag of **DECORITe**[®]**SLU** will give enough material to cover approximately 3m² at an average thickness of 5mm.

1.8 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.

1.9 WARRANTY

DECORITe® SLU is guaranteed to be free of any manufacturing defect.

1.10 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.

1.11 GREEN BUILDING COUNCIL VOC REQUIREMENTS

DECORITe®SLU 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**.

1.12 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.





2. MATERIAL SAFETY DATA

2.1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Name of substance/preparation:

Commercial product name:.....DECORiTe®SLU

2.2 USE OF SUBSTANCE / PREPARATION

Industrial/Commercial.

2.2.1 USED FOR: LEVELLING OF FLOORS

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

2.2.2 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

2.3 HAZARDS IDENTIFICATION

2.3.1 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.

2.3.2 LABELLING

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

R-Phrase Description – 36/38 Irritant to eyes

S-Phrase Description

2.3.3 FURTHER HAZARDS TO HUMAN AND ENVIRONMENT:

The product does not have any further hazards

2.3.4 COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION:

Mixture

2.3.5 DESCRIPTION:

Mixture of cement and sand mixture with other non hazardous additions





2.3.6 FIRST-AID MEASURES

2.3.7 GENERAL INFORMATION:

Under ordinary workplace conditions: No special measures required

2.3.8 AFTER CONTACT WITH THE SKIN

Wash with plenty of water or water and soap.

First-aid measures cont.

2.3.9 AFTER CONTACT WITH THE EYES

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

2.3.10 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).

2.3.11 ADVICE FORTHE PHYSICIAN

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

2.4 FIRE-FIGHTING MEASURES

2.4.1 SUITABLE EXTINGUISHING MEDIA

Water spray , water mist , extinguishing powder , foam , carbon dioxide .5.2 Extinguishing media which must not be used for safety reasons

Water jet .

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

No further relevant information available

2.4.3 SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING

No further relevant information available

2.5 ACCIDENTAL RELEASE MEASURES

2.5.1 PERSONAL PRECAUTIONS

Wear a dust mask

2.5.2 ENVIRONMENTAL PRECAUTIONS

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

2.5.3 METHODS FOR CLEANING UP

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

2.5.4 FURTHER INFORMATION:

Observe notes under section 7 with regards to safe handling

Observe section 8 for information on personal protective equipment.





2.6 HANDLING AND STORAGE

2.6.1 HANDLING

Precautions for safe handling:

Avoid dust formation.

Precautions against fire and explosion:

No special measures required

2.6.2 STORAGE

Conditions for storage rooms and vessels:

No special measures required

Advice for storage of incompatible materials:

not applicable.

Handling and storage continued..

Further information for storage:

not applicable.

2.7 EXPOSURE CONTROLS AND PERSONAL PROTECTION EQUIPMENT

2.7.1 EXPOSURE LIMITS - EXPOSURE LIMITED AND CONTROLLED

2.7.2 EXPOSURE INTHE 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 .

2.7.3 EXPOSURE TO THE ENVIRONMENT LIMITED AND CONTROLLED

Prevent material from entering surface waters and soil.

2.8 PHYSICAL AND CHEMICAL PROPERTIES

2.8.1 GENERAL INFORMATION

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

Colour: grey - brown

Odour ...: odourless

2.8.2 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





Lower explosion limit (LEL) not applicable Vapour pressure..... not applicable Bulk density..: 1300-1500 kg/m³ (DIN EN ISO 60) Water solubility / miscibility....: Insoluble sets in water

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

pH-Value: 11 Viscosity (dynamic) not applicable

2.9 STABILITY AND REACTIVITY

2.9.1 GENERAL INFORMATION:

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

2.9.2 CONDITIONS TO AVOID

none known

2.9.3 MATERIALS TO AVOID

none known

2.9.4 HAZARDOUS DECOMPOSITION PRODUCTS

If stored and handled properly: none known. At increased temperature: acetic acid.

2.10 TOXICOLOGICAL INFORMATION

2.10.1 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.

2.10.2 TOXICOLOGICAL TESTS

Acute toxicity

Primary irritation:

Eves: irritating effect

Sensitization:

no sensitizing effects known

Further information:

The product shows the following aspects:

Irritant





2.11 ECOLOGICAL INFORMATION

2.11.1 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.

2.11.2 MOBILITY

No further relevant information available

2.11.3 BIO-ACCUMULATION POTENTIAL

No adverse effects expected.

2.12 OTHER HARMFUL EFFECTS

2.12.1 ADDITIONAL INFORMATION

General information:

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 UNCLEANED PACKAGING

Recommendation:

Completely discharge packaging. Paper packaging may be recycled

2.14 TRANSPORT INFORMATION

2.14.1 LANDTRANSPORT 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 AIRTRANSPORT 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 SLUd 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.





3. METHOD STATEMENT

3.1 BASIC DECORITE SLU APPLICATION

3.1.1 THICKNESS & USAGE

DECORITe® **SLU** can be applied from 0.3mm thick to a maximum of 15mm, multiple layers should be added, with a coat of **BONDiTe**® primer between layers. Approximately 1.5 kg of **DECORITe**® **SLU** per 1mm per m² will be required. **BONDiTe**® must be used as a primer onto the concrete substrate to prevent air bubbles from rising once the **DECORITe**® **SLU** is applied, to ensure a proper flow of the compound over the substrate and to bind the surface well. **BONDITe**® is applied at an average of 4m² per litre.

DECORITe®SLU is available in 21,5kg bags. **BONDITe®** is available in 5 & 25Litre Plastic Containers.

3.2 PREPARATION

Prior to applying **DECORITe®SLU** Self Levelling Compound, it is important to determine that the substrate is sound (cracks are often an indication of delamination between the slab and sand/cement screeds, and it is advisable to tap the screed at regular intervals and listen for hollow sounds which indicate poor inter-coat adhesion), with no loose or friable material evident, dry, ie less than 3%MC, free of contaminants and dust free.

NOTE: For internal use only, as there is no control over natural elements such as heat or air movement. It is recommended that direct to ground sub-floors be protected from rising damp to prevent dimensional changes in the floor covering (confirm the maximum permissible moisture content that the floor covering or adhesive can tolerate). **VAPORITE® +PLUS** epoxy moisture barrier system has been specifically developed for applications where screed moisture exceeds 3%.

Should hollow areas be found, this is best rectified by establishing the affected area, cutting a border around the area with an angle grinder, removing the loose screed and filling the area with **PATCHITe**[®] Rapid Set Patching Compound.

Any large holes or saw cut joins should be patched or filled by pouring mixed PATCHiTe® into them and trowelling the surface flush with the adjacent surfaces. Commence with the application once the **PATCHITe®** is dry. Where expansion joints are encountered, it is important to honour these and establish the end client's finish specification to ensure compliance with technical slab movement requirements.

Assess the access area where the **DECORITe®SLU** is to be mixed and if necessary, place protective plastic sheeting on the ground to prevent cement dust contamination. When the job is complete, it should be clean and tidy, as it was found.

3.3 PRIMING

The screed must be primed with **BONDiTe**® primer and bonding agent, using a lamb's wool roller or brush, making sure that the entire surface is well coated. The **BONDiTe**® seals the concrete pores and promotes the smooth flow of the levelling compound while preventing air bubbles rising through the applied **DECORITe**®**SLU**.

To ensure that no bubbles arise, care must be taken that no uncoated spots are left. Please note that the primer must be allowed to dry properly before application of the levelling compound. This normally takes approximately 30 minutes.

BACKTO CONTENTS





At this point it is advisable to install the sealing strip to doorways and places where the compound is to end. Bond 10 x 10mm foam tape to surfaces where the compound is to end, eg. doorways, stairs etc. This will prevent the self-leveller from running into areas not to be levelled.

Non-absorbent substrates such as power-floated concrete, ceramic or porcelain tiles must first be primed with **iTe SLURRY**® in accordance with the **iTe SLURRY**® Technical Data sheet. **iTe SLURRY**® is rolled on with a mohair roller and allowed to dry.

3.4 MIXING

Use 5.0 liters of water per bag. Do NOT over-water. Add the powder to the required amount of clean cool water in a clean mixing container whilst using a +/-600 rpm electric paddle mixed until a lump free screed is produced. This will take approximately 3 to 4 minutes. Stop the mixer and scrape the inside of the mixing vessel to allow any unmixed product to fall onto the paste. Briefly remix the **DECORITe®SLU** and then discharge onto the affected floor.

Mixed **DECORITe® SLU** should be applied within 5 minutes at 20°C. This time is extended at lower temperatures and reduced at higher temperatures.

3.5 APPLICATION

Pour the mixed **DECORITe® SLU** onto the primed substrate, spreading it out with a long handled pin leveller set to 5mm. "pushing" the compound to fill initial area, and the "pulling" or "drawing' the compound until the entire surface is covered.

It is best to meld subsequent pours into already applied product and drawing the mixture away to obtain a constant thickness. The self-levelling properties of the **DECORITE® SLU** will ensure an even, smooth distribution of the compound. Roll the wet compound with a spiked roller gently and slowly, but thoroughly, at right angles to the draw, before the setting process advances too much. This will remove any small air bubbles and retain effective mixing or any deviations left by the skeg leveller. The person rolling the compound should wear spiked boots to minimise disturbance of the applied compound.

NB. The **iTe CEMOX**® can typically be installed the following day, 24 hours after the application of the levelling compound. When left uncovered, the new screed may become contaminated by building activities, and it is recommended that once cured, that it is protected by covering with a suitable material.

3.6 GENERAL

In order to maintain a constant even drying process, windows should be closed and drafts avoided during the initial set.

All supplied data is SLUd on laboratory tests conducted at 20 C, and a relative humidity of 50% as required by international standards. SLUd on practical building site conditions, temperatures should be between 10°C and 30°C. When higher temperatures are experienced, the drying will accelerate and allowance for this needs to be made by the applicator. Actual conditions experienced may result in slightly different results. Experience has shown that to achieve the best results iro levelness, a depth of 4 to 5mm or more should be poured.

Specialist applications such as bulking out should be discussed with our technical staff.

Please do not hesitate to contact us for training or any queries you may have.





4. APPLYING DECORITE SLU OVER TILES

4.1 PRECAUTIONS

DECORITe® SLU can be applied over existing ceramic or porcelain tiled floors. Certain precautions need to be taken before proceeding:

Check soundness and hollowness of tiles – remove and hollow sounding or loose tiles and apply BONDiTe and then **PATCHITe**® to fill void as per standard **PATCHITe**® application methodology.

Check for moisture – moisture exceeding flooring covering specification must be dealt with by applying **VAPORITe® +PLUS** moisture barrier as per **VAPORITe® +PLUS** installation specification.

Check that the tiles are not coated with a sealer which could cause lack of proper adhesion. If so, the sealer must be stripped prior to proceeding.

Check that the tiles are not contaminated by oils or any materials which may hinder proper adhesion.

Should moisture not be an issue the iTe SLURRY® is applied as shown below.

4.2 INSTALLATION

4.2.1 STEP 01

Pour the iTe SLURRY onto the tiles and apply evenly with a mohair roller.

4.2.2 STEP 02

Allow the slurry to dry and harden.

4.2.3 STEP 03

Apply **DECORITe® SLU** onto floor as per standard **LEVELITe®** application methodology.

Allow the floor to cure and apply the **iTe CEMOX® BASE** the next day.

NOTE: When priming with **BONDiTe**® over old ceramic tile adhesive, please ensure that the old adhesive is properly sealed, even applying a second coat, due to the porosity of the adhesive and the tendency for air to escape during curing, causing pinholes in the dry **DECORITe**® **SLU**.





5. THEORETICAL (VOC) CONTENT

5.1 PRODUCT:

DECORITe® SLU Self Levelling Floor Screed Compound

5.2 ABBREVIATIONS

S.G. = Specific Gravity g/ml = grams/millilitre g/l = grams/litre

5.3 FORMULAS

Sum of VOC's in Sealer/Primer formulation = VOC % $VOC (g/l) = VOC \% \times S.G. \times 10$ S.G. (g/ml) = 1.00g/ml VOC % = 0% $VOC (g/l) = 0 \times 1.00 \times 10 = 0g/l$ Maximum VOC content (Specified by Green Building Council of South Africa): 50g/l

Peter Funke
Product Development Manager





6. SHORT REPORT VOC

31 October 2018

Short Report: Product DECORiTe® SLU Self Levelling Floor Screed

iTe Products® ' DECORITe® SLU Self Levelling Floor Screed Compound meets the Green Building Council of South Africa's credit criteria for the following reasons:

Maximum VOC allowable (gms/litre) 50g/l

DECORITe® SLU 0g/l

This is SLUd on the fact that the product contains no organic solvents. I declare the above information to be correct Signed:

Alistair Mac Dougall





7. VOC CONFIRMATION NOTICE

31 October 2018

To: All interested Parties

Dear Sir/Madam,

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

We hereby confirm that **DECORITe® SLU** Self Levelling Floor Screed Compounds 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 Flooring Contractor must provide written confirmation that **DECORITe® SLU** 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,







8. WARRANTY

iTe Products® further warrants that **DECORITe**® **SLU** is are manufactured to strict quality control standards and Is free of any manufacturing defect.

