



GRIP **iTe**[®] **V50**
HIGH-PERFORMANCE
LVT ADHESIVE

DATA SHEETS

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1. TECHNICAL DATA

1.1 DESCRIPTION:

GRIPiTe[®] V50 is a high solids, hard-set Universal flooring adhesive, suitable for the internal installation of a wide variety of floor coverings, including vinyl, linoleum with special emphasis on LVT Flooring. The long working time, coupled to the rapid hard set make the products suited for use on floor coverings with moderately high shrinkage co-efficients. **GRIPiTe[®] V50** is a low odour, solvent free, product that has an ultra low VOC content making it suitable for installations in 'Green' buildings and also for installations in partially occupied buildings. The product also has wide temperature tolerance making it suitable for use in many underfloor heating applications.

GRIPiTe[®] V50 is suitable for:

- Luxury Vinyl Tiles and PVC floor coverings in sheets and tiles.
- PVC wall cladding
- Rubber Flooring in sheets
- Linoleum

1.2 TECHNICAL SPECIFICATION:

Product Base Type: Unique Vinyl terpolymer

Appearance: Off-white paste

Coverage: 200-500g/m² (dependent on covering and substrate)

Application Temperature: 15°C minimum - for screed and ambient.

Drying Time (Open Time): 10 – 45 minutes* (dependent on application)

Working Time: 40 -120minutes* (dependent on application)

Service conditions: Trafficable after 24 hours*

Final strength after 72 hours*- 'weldable' after 24 hours*

*Note – Times are based on 23°C at 65% RH and depend on covering and application.

1.3 SURFACE PREPARATION:

The surface to be covered must clean and dry and free from cracks and any foreign contaminants.

Cementitious substrates should be tested in accordance with the applicable standards for moisture content and shrinkage. New base screeds should be a minimum of 42 days old.

Coarse or uneven surfaces should be primed and levelled with the appropriate iTe underlayment product and allowed to dry for the requisite period.

The substrate should be vacuumed immediately prior to adhesive application to ensure minimum dust levels.

Acclimatize Floorcoverings and adhesive prior to laying in an un-stressed state at the same temperature as the substrate to ensure no undue stress is built into the installation. We recommend that the flooring manufacturer's specifications relating to screed moisture, temperature, and other factors are adhered to.

1.4 APPLICATION:

Apply **GRIPiTe[®] V50** adhesive evenly over the surface with a suitable notched trowel and allow to partially dry. Adhesive should be applied holding the notched trowel held at a constant angle of 45° to ensure even and complete coverage. See Table 1 below for the appropriate coverage/trowel size matched

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specifically to the floor covering and the substrate surface.



Do not apply more adhesive than can be laid within the open and working time windows.

Install the floor covering checking to ensure that good transfer is occurring and consolidate by rolling with an appropriate roller. Ensure no air is trapped under the floor covering. Allow the installation to set-up for a further 20-40 minutes and then repeat the roll out paying particular attention to joints, seams and edges. (As Drying times will depend on screed porosity and ambient conditions of temperature and humidity the set time can be variable and it is advisable to check periodically for signs of 'peaking' and if noted repeat the roll down immediately.)

Remove any residual adhesive before it hardens with warm water ensuring that excess water is not allowed to build up or pond at joints and seams.

FLOORCOVERING	APPLICATION SPREAD WEIGHT	OPEN TIME - WORKING TIME @ 25°C	
Smooth Cushion Vinyl, smooth wall cladding	180-200g/m ²	15-20 minutes	40 minutes
Smooth CV Sheeting	200-280g/m ²	20 minutes	40 minutes
Lightly Textured PVC and LVT Rubber flooring	250-320g/m ²	20-25 minutes	40-50 minutes
Textile floor covering, linoleum Fine texture needle-punch	320-380g/m ²	25 minutes	40-60 minutes
Coarse flooring substrates. Course needle-punch, Woven carpeting	400-480g/m ²	30 minutes	40-60 minutes

Note: On extremely dense or semi-impervious surfaces only apply 180-200g/m² irrespective of floor covering and pay close attention to drying time and working time – apply the floor covering only when the adhesive is dry and consolidate with rolling immediately and again during the working time.

1.5 CLEANING EQUIPMENT:

Before it has set **GRIPiTe[®] V50** can be washed off with soapy water. Once dry, thinners or similar will be effective.

1.6 SAFETY & 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.

1.7 SHELF LIFE:

12 months minimum when stored in original containers in a clean dry environment at ambient temperature.

2. MATERIAL SAFETY DATA

2.1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY:

2.1.1 NAME OF SUBSTANCE/PREPARATION:

Commercial product name: **GRIPiTe[®] V50**

2.1.2 USE OF SUBSTANCE / PREPARATION

Industrial/Commercial/Residential.

Used for: Adhering vinyl floor coverings to cementitious substrates.

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

2.1.3 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

2.2 HAZARDS IDENTIFICATION:

HAZCHEM CODE: 2Z-NON HAZARDOUS

2.2.1 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).

2.2.2 LABELLING

Labelling (67/548/45/EC):

R-Phrase Description – Nil

S-Phrase Description—Nil

2.2.3 FURTHER HAZARDS TO HUMAN AND ENVIRONMENT:

The product does not have any further hazards

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2.3 COMPOSITION/INFORMATION ON INGREDIENTS

2.3.1 CHEMICAL CHARACTERIZATION: Mixture

2.3.2 DESCRIPTION:

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

EC-No. Label	CAS No.	Material	Content %	Warning
hydrOxypolyglycoether	9043-30-5 <3	Alpha-i-tridecyl-omega- Xn	R22-41	

2.4 FIRST-AID MEASURES - GENERAL INFORMATION

Under ordinary workplace conditions no special measures required.

2.4.1 INHALATION OF VAPOUR

Non-Toxic. No special measures required.

2.4.2 AFTER CONTACT WITH THE SKIN

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

Remove soiled clothing

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

Do not induce vomiting and seek immediate medical attention.

2.5 FIRE-FIGHTING MEASURES

The product is an aqueous dispersion and is not combustible. Dried up material is combustible. Water, dry chemical powder, foam, carbondioxide or sand can be used.

2.6 ACCIDENTAL RELEASE MEASURES

2.6.1 PERSONAL PRECAUTIONS

Wear personal protective equipment. Be aware of slippage.

2.6.2 ENVIRONMENTAL PRECAUTIONS

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

2.6.3 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)

2.6.4 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.

2.7 HANDLING AND STORAGE

2.7.1 HANDLING

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



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2.7.2 STORAGE

Conditions for storage rooms and vessels: Protect from frost and direct sunlight.

2.8 EXPOSURE CONTROLS AND PERSONAL PROTECTION EQUIPMENT

2.8.1 EXPOSURE LIMITS

Not applicable

2.8.2 EXPOSURE CONTROLS

Do not eat or drink when handling.

Personal protection equipment - Not required

Respiratory protection - Not required

Hand protection - For frequent contact, wear impermeable gloves

Eye protection - Goggles, face visor or safety glasses is recommended for splashes

Skin protection - Not required.

2.8.3 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.....: creamy beige paste

Odour: slight

pH.....: 7.5—8.5

Boiling Point.....: Approx 100°C

Melting point.....: Approx 0°C

Flashpoint.....: Not Applicable

Flammability.....: Not Applicable

Auto-flammability.....: Not Applicable

Explosion Hazard.....: Not Applicable

Oxidising Properties.....: Not Applicable

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

Relative density.....: Approx 1.15gm/cm³

Solubility in water.....: moderately soluble

Viscosity (dynamic):25000—30000cPs at 23°C

2.10 STABILITY AND REACTIVITY

2.10.1 GENERAL INFORMATION

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

2.11 TOXICOLOGICAL INFORMATION

2.11.1 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.



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2.12 ECOLOGICAL INFORMATION

2.12.1 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.

2.13 DISPOSAL CONSIDERATIONS

2.13.1 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.

2.14 TRANSPORT INFORMATION

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

2.15 REGULATORY INFORMATION

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

2.16 OTHER INFORMATION

2.16.1 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.

2.16.2 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: **GRIPiTe® V50**

3.2 ABBREVIATIONS

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

3.3 FORMULAS

Sum of VOC's in Adhesive formulation = VOC %
 $VOC (g/l) = VOC \% \times S.G. \times 10$

3.4 S.G. (g/ml) = 1.15g/ml

3.5 VOC % = 0%

3.6 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



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4. SHORT REPORT VOC

7 August 2014

Short Report: Product GRIPiTe[®]V50 Acrylic Flooring Adhesive

iTe Products' GRIPiTe V10 Pressure Sensitive Acrylic Flooring Adhesive meets the Green Building Council of South Africa's credit criteria for the following reasons:

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

GRIPiTe[®] V50 0g/l

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

I declare the above information to be correct

Signed:



Alistair Mac Dougall



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5. 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 GRIPiTe V50 Acrylic Flooring Adhesive 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 **GRIPiTe® V50** 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,



Alistair Mac Dougall



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6. WARRANTY

iTe PRODUCTS GRIPiTe® V50 is manufactured to comply with the required standards for use as an adhesive for bonding backed carpet tiles to access flooring bases and cement based substrates.

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 applicable 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 excessive moisture, flooding or the substrate failing for any reason, or application of the adhesive in a manner not suited to the circumstances.