



GRIP **iTe**[®] **H80**
MULTIPURPOSE
HYBRID ADHESIVE

DATA SHEETS

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1. TECHNICAL DATA

1.1 DESCRIPTION

GRIPiTe[®]H80 is a one-part silicone modified polymer hybrid adhesive

GRIPiTe[®]H80 is moisture curing, which makes it totally resistant to water and any residual moisture

GRIPiTe[®]H80 is available in 15kg pails.

GRIPiTe[®]H80 can be used for the installation of:

- synthetic grass to concrete and other substrates
- LVT's (Luxury Vinyl Tile or Plank). in areas where their dimensional stability may be compromised. (In front of windows and doorways, where moisture may be of concern. such as walk in fridges, wet areas In shopping complexes or where water from the surface may effect Integrity of adhesives below floor coverings.
- Engineered and solid wood to cementitious substrates
- Should you be unsure as to the material and adhesive to utilise in your application please consult with the iTe Products technical team.

GRIPiTe[®]H80 Has low odour, making it suitable for use in areas adjacent to those that are occupied.

GRIPiTe[®]H80 contains no VOC's, is solvent-free and completely compliant with all GBCSA green building requirements, and can be used either indoors or outdoors.

GRIPiTe[®]H80's solvent-free composition allows It to be used in applications onto waterproofing systems, such as torch-on," bitumen and acrylic this can however not be guaranteed as the long-term effects of plasticizer migration are not fully understood as temperature fluctuation in these applications is outside of the manufacturers control. Its flexibility aids in preventing the glue-line from fracturing under low levels of expansion and contraction of the waterproofing system. Before installing over the waterproofing, consult with the manufacturers of the synthetic grass and waterproofing systems for any special precautions or specific instructions.

1.2 SURFACE PREPARATION:

The preparation of the subfloor is critical to ensure successful installation of any floor covering and must therefore be strictly adhered to, too ensure longevity and performance of the floor and floor covering for the duration of Its lifespan.

- The substrate must be structurally sound.
- Free of loose granular particles.
- Free of excess dust.
- Dry - where wood or absorbent floor coverings are concerned screed moisture levels must be below 3% using a VI-D4 Moisture meter and or below 75%RH.
- Adhere to the floor covering manufacturer's specification for moisture levels.
- Free of any contamination, laitance, old adhesive, grease, oils, wax, sealers, and any substance that can inhibit adhesion.



GRIPiTe[®] H80

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- Adhere to the floor covering manufacturer's specification for floor flatness conformity.
- The floor temperature must be maintained constantly above 10°C and below 30°C during and after the application, flash off, and final drying of the adhesive.
- the floor temperature must not fluctuate more than 19°C from the Initial temperature reading during Installation.
- dimensionally unstable products should be protected from direct sunlight, excessive fluctuations in temperature and humidity before during and after Installation.

Further subfloor preparation information can be made available on request.

1.2.1 SCREED MOISTURE

Should the screed moisture levels exceed that stipulated above, and that mandated by the floor covering manufacturer it is imperative that the substrate be prepared with **VAPORiTe Plus**, or Premium depending on the application and complexity thereof. Further information pertaining to the correct product for the application can be made available on request.

1.2.2 SUBFLOOR SURFACE FINISH

The subfloor surface must conform to the requirements set out by the floor covering manufacturer to ensure the floor covering maintains Integrity throughout its life span. should the surface not conform to that required, the subfloor can be rectified utilizing the appropriate **LEVELiTe** self-levelling compound.

1.3 USAGE:

GRIPiTe[®] H80 will cover between 1m² and 3m² per kg depending the smoothness of the substrate and the notch size of the trowel.

Artificial turf = B9 notch size

Engineered wood / solid wood = B9 notch size

LVT's = A2 notch size

For Information pertaining to other applications please consult with the iTe Products technical team.

The notch has a life span of approximately 50²m per side (if supplied by iTe Products) and It Is therefore Imperative they be maintained to ensure sufficient adhesive is applied to the surface.

1.4 APPLICATION:

GRIPiTe[®] H80 is applied with the predetermined notched trowel.

The notch size is dependent on the type of material being Installed (refer to usage for further detail)

1.4.1 ARTIFICIAL TURF

A band of adhesive of 200 to 300mm wide is spread along the joins, covering both sides of the sheet, and around the perimeter. It may be deemed necessary to apply 200mm bands every metre across the width of the sheet.

Refer to the relevant manufacturers fitting Instructions of the floor covering for more detail.

1.4.2 LVT

GRIPiTe[®]H80 is poured onto the floor and evenly spread with the A2 notched trowel.

- the notched trowel must be held perpendicular to the floor surface to ensure the correct volume of adhesive is applied.
- **GRIPiTe[®]H80** must NOT be allowed to flash off and the floor covering must be laid into the wet adhesive.
- Note: Do not apply GRIPiTe[®]H80 to an area bigger than that which can be fitted within the working time of the adhesive.

1.4.3 RUBBER SHEETING

- **GRIPiTe[®]H80** is poured onto the floor and evenly spread with the B2 notched trowel.
- the notched trowel must be held perpendicular to the floor surface to ensure the correct volume of adhesive is applied.
- **GRIPiTe[®]H80** must NOT be allowed to flash off and the floor covering must be laid into the wet adhesive.

Note: Do not apply **GRIPiTe[®]H80** to an area bigger than that which can be fitted within the working time of the adhesive.

1.4.4 WOOD / ENGINEERED WOOD

- **GRIPiTe[®]H80** is evenly spread with the B9 notched trowel. consult with the floor covering manufacturer for specifics on the bonding method to use in your application.
- the notched trowel must be held perpendicular to the floor surface to ensure the correct volume of adhesive is applied.
- **GRIPiTe[®]H80** must NOT be allowed to flash off and the floor covering must be laid into the wet adhesive.

Note: Do not apply **GRIPiTe[®]H80** to an area bigger than that which can be fitted within the working time of the adhesive.

GRIPiTe[®]H80 is moisture curing, the open time or working time for the adhesive is between 15 and 30 minutes. The higher the moisture the faster the setting.

The material must be laid into the adhesive while it is wet.

Apply pressure to the material in order to ensure good contact between the underside of the material and the adhesive and transfer of adhesive onto the back of the material

Once placed, the material should not be moved during the setting process.

GRIPiTe[®]H80 is pre-mixed and does not require mixing. When the container is opened for a second or third time, any film on the surface must be removed.

NB! as this product does not have initial tack it will not grab onto the material and thus this adhesive requires pressure to be applied while it is setting. the pressure should be applied for approximately 20 minutes depending on climatic conditions.

- allow sufficient transfer onto the back of the floor covering (If the floor covering is laid in too late insufficient transfer occurs, and the adhesion is compromised and weak).

1.5 PRECAUTIONS:

- Ensure the floor covering is properly acclimatised prior to Installation, as per floor covering manufacturers recommendations, and installation instructions prior to use.
- Ensure a stable ambient temperature is maintained for a minimum of 24 hours pre, during and post Installation to allow the adhesive to fully cure and minimise any expansion and shrinkage within the floor covering material.
- Protect the floor covering from direct sunlight, vast fluctuations in temperature and moisture at all times.
- Allow the adhesive 24 hours to set before applying any load to the floor covering, this Includes but is not limited to furniture.

1.6 CLEANING:

- Tools and equipment must cleaned with a cloth immediately after use.
- Once cured **GRIPiTe[®]H80** can be removed with a scraper. no solvent or detergent will remove It thus caution must be exercised to not soil surfaces.

1.7 SHELF LIFE:

GRIPiTe[®]H80 must be stored in a cool dry place.

GRIPiTe[®]H80 must be stored between 5°C and 30°C, and protected from frost, direct sunlight and the elements.

GRIPiTe[®]H80 will last for 12 months unopened. once opened use as quickly as possible as it will start setting In the container.

1.8 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.

1.9 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. MATERIAL SAFETY DATA

2.1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Name of substance/preparation:

Commercial product name:.....**GRIPiTe® H80** hybrid multipurpose Adhesive

2.1.1 USE OF SUBSTANCE / PREPARATION

Industrial/Commercial/Residential.

Used for: Adhering Synthetic Grass, Engineered Wood and Sports Rubber Flooring to cementitious substrates.

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

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

2.3 COMPOSITION/INFORMATION ON INGREDIENTS

2.3.1 CHEMICAL CHARACTERIZATION:

Mixture

2.3.2 DESCRIPTION:

Silane Modified Polymer Hybrid Flooring Adhesive

2.4 FIRST-AID MEASURES

2.4.1 GENERAL INFORMATION:

Under ordinary workplace conditions no special measures required.

2.4.2 INHALATION OF VAPOUR:

Non-Toxic. No special measures required.

2.4.3 AFTER CONTACT WITH THE SKIN:

*Wash with plenty of water and soap. In case of continuous irritation seek medical advice.
Remove soiled clothing*

2.4.4 AFTER CONTACT WITH THE EYES:

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

2.4.5 AFTER SWALLOWING:

Do not induce vomiting and induce small quantities of water. Seek medical attention.

2.5 FIRE-FIGHTING MEASURES

2.5.1 SUITABLE EXTINGUISHING MEDIA:

The product is not combustible. Dried up material is combustible. Dry chemical powder, alcohol resistant foam, carbon dioxide or sand can be used.

2.5.2 SPECIAL HAZARDS ARISING FROM THE MIXTURE:

Nitrous gasses, methanol, benzene

2.5.3 SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING:

Use respiratory protection independent of recirculated air

2.6 ACCIDENTAL RELEASE MEASURES

2.6.1 PERSONAL PRECAUTIONS:

Wear personal protective equipment. Avoid contact with eyes and skin, inhaling mists and vapours.

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:

Eliminate sources of ignition

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:

Precautions for safe handling:

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

2.7.2 STORAGE:

Conditions for storage rooms and vessels:

Protect from moisture, 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

2.8.3 RESPIRATORY PROTECTION:

Not required

2.8.4 HAND PROTECTION:

For frequent contact, wear impermeable gloves

2.8.5 EYE PROTECTION:

Goggles, face visor or safety glasses is recommended for splashes.

2.8.6 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:.....Paste

Colour:.....Grey

Odour:.....Slight

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.....: >100°C

Auto-ignition temperature.....: above 380°C

Lower explosion limit (LEL): Not applicable

Vapour pressure.....: not applicable

Bulk density.....: Approx 1.15gm/cm³

Water solubility / miscibility.....: insoluble at 25°C

pH-Value: 7.5-8.5

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.

No toxicological test data is available for this product

2.12 ECOLOGICAL INFORMATION

2.12.1 ECOTOXICITY:

No test data is available for this product.

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

Silicone content: biologically not degradable.

2.13 DISPOSAL CONSIDERATIONS

2.13.1 MATERIAL:

The product should be disposed of according to regulations by incineration in a special waste incinerator. Observe local regulations.

2.14 TRANSPORT INFORMATION

The product is not classified as hazardous according to International Transport Regulations and is not regulated for transport.

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.

3. THEORETICAL (VOC) CONTENT

3.1 PRODUCT:

GRIPiTe[®] H80 hybrid multipurpose Adhesive

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 $VOC (g/l) = 0 \times 1.00 \times 10 = 0g/l$

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



Peter Funke

Product Development Manager

4. SHORT REPORT VOC

7 August 2014

Short Report: Product GRIPiTe H80 Hybrid Multipurpose Adhesive

iTe Products **GRIPiTe[®] H80** sealer meets the Green Building Council of South Africa's credit criteria for the following reasons:

Maximum VOC allowable (gms/litre)	50g/l
GRIPiTe[®] H80	0g/l

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

I declare the above information to be correct

Signed:



Peter Funke
Product Development Manager

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


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

*We hereby confirm that **GRIPiTe[®] H80** turf Silane Modified Polymer Hybrid 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[®] H80** hybrid multipurpose adhesive is to be used in the installation of the synthetic grass, LVT, wood and rubber floor coverings.*

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



Peter Funke

Product Development Manager

6. WARRANTY

GRIPiTe[®] H80 Adhesive is manufactured to comply with the required standards for use as an adhesive for bonding synthetic grass , LVT's and engineered and solid wood to 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 method statement 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.

All other areas of application must be agreed on in writing with the Technical Department of the manufacturer prior to installation for the guarantees to be effective

7. SUGGESTED SPECIFICATION

Install _____ onto substrate with **GRIPiTe[®] H80** Hybrid Adhesive in accordance with the manufacturer's specifications.