GRIP iTe H80
SYNTHETIC GRASS ADHESIVE

DATA SHEETS

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1. TECHNICAL DATA

1.1 DESCRIPTION
GRIPiT® H80 is a one-part silicone modified polymer hybrid adhesive designed for bonding synthetic grass to concrete and other substrates. GRIPiT® H80 is moisture curing, which makes it totally resistant to water and any residual moisture in the concrete. GRIPiT® H80 builds up tack rapidly, has very high bond strength and will prevent any delamination or breaking loose from the substrate provided there is no delamination in the substrate itself. The adhesive retains slight flexibility for its lifetime, and will not harden or break down.

GRIPiT® H80 is guaranteed to bond the synthetic grass to concrete for the lifetime of the synthetic grass, provided installation instructions are followed.

In line with international standards, GRIPiT® 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.

Due to GRIPiT® H80’s solvent-free composition it can be safely used in applications onto waterproofing systems, such as torch-ons, bitumen and acrylic. 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 APPLICATION
Preparation prior to application consists of sweeping the concrete to remove any dust, particles or loose substances. GRIPiT® H80 is applied with a notched trowel. The notch size is dependent on the backing of the synthetic grass—very irregular backing should be installed on adhesive applied with a 6mm notched trowel, while a 3mm notched trowel can be used for the smoother backed grass. (iTe recommends Trowel blade B3)

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.

As GRIPiT® H80 is moisture curing, the open time or working time for the adhesive is between 20 and 30 minutes. The higher the moisture the faster the setting. GRIPiT® H80 becomes tacky rapidly, and the synthetic grass must be laid into it while wet.

Apply pressure to the synthetic grass in order to ensure good contact between the underside of the grass and the adhesive and transfer of adhesive onto the back of the grass. Once placed, the synthetic grass should not be moved during the setting process.

1.3 MIXING
GRIPiT® 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 stirred into the liquid to remove any lumps.

1.4 COVERAGE
GRIPiT® H80 will cover between 1 and 2m² per kg depending the smoothness of the screed and the notch size of the trowel.
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. Tools and equipment must be washed with warm water to remove adhesive residue.

1.6 **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.

1.7 **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. MATERIAL SAFETY DATA

2.1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Name of substance/preparation:
Commercial product name:............GRIPiT®H80 Synthetic Grass Adhesive

2.1.1 USE OF SUBSTANCE / PREPARATION

Industrial/Commercial/Residential.
Used for: Adhering Synthetic Grass 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, carbondioxide 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:
Precations 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—30000cP.s 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:**
   GRIPiT® H80 Synthetic Grass 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 % x S.G. x 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
4. SHORT REPORT VOC

7 August 2014

Short Report: Product GRIPiTe H80 Synthetic Grass 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:

Alistair Mac Dougall
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 GRIPiT® 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 GRIPiT® H80 synthetic grass adhesive is to be used in the installation of the synthetic grass 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

Alistair Mac Dougall
6. WARRANTY

iTe PRODUCTS warrants that:

**GRiP™H80** Synthetic Grass Adhesive is manufactured to comply with the required standards for use as an adhesive for bonding synthetic grass 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.

7. SUGGESTED SPECIFICATION

Install_____________________ Artificial Turf onto substrate with **GRiP™H80** Hybrid adhesive in accordance with the manufacturer’s specifications.