



# VITAL TECHNICAL SDN. BHD.

## Technical Data Sheet

### VT-632 Artificial Grass Adhesive



Issuance date: 14/02/17

Revision date: 13/07/2023

Revision No.: 23-01

# VT-632 Artificial Grass Adhesive

## High Performance One-component Artificial Grass Adhesive



### BASE

One-component  
MS (Modified Silane)  
Polymer

### PHYSICAL STATE

Soft Paste

### COLOR

Green

### TACK-FREE TIME

20 – 40 minutes

### WORKING TIME

~ 30 minutes  
(at 25°C & 50% R.H.)

### PACKAGING

- 600 mL/sausage sachet  
(20 sausages/carton)
- 24 kg/pail  
(3x8kg packs per pail)  
(24kg ≈ 15.3 Liter)

### SHELF LIFE

12 months

### STORAGE

Store in a dry and cool  
place with temperature  
around 30 °C

### APPLICATION

TEMPERATURE  
10 °C – 35 °C

### SERVICE

TEMPERATURE  
-30 °C to 90 °C

### DESCRIPTION



A one-component MS Polymer adhesive formulated for bonding artificial grass floor coverings in athletic and landscape applications. It is a green product, meeting SCAQMD VOC limit and is recommended for green buildings. It does not contain any solvents (will not damage bonded substrates), water (no glue line shrinkage), or isocyanates (non-hazardous). It is specially designed to have weather-resistant bonding for both indoor and outdoor applications.

### TECHNICAL

#### DATA

|                          |  |  |
|--------------------------|--|--|
| Base                     | : 1-component MS (Modified silane) Polymer |  |
| Curing system            | : Moisture curing                          |  |
| Specific gravity         | : 1.64 g/mL                                |  |
| Maximum tensile strength | : 1.9 MPa                                  | ASTM D412                                      |
| Elongation at break      | : 160 %                                    | ASTM D412                                      |
| Shore A hardness         | : 45                                       | ASTM C661                                      |
| VOC content              | : 18.59 g/L                                | USEPA Test method 24<br>under SCAQMD rule 1168 |

### FEATURES

- Single-component – *no mixing required*
- Permanently elastic – *allows bonded artificial grass to expand/contract*
- Weatherproof – *indoor and outdoor applications*
- Green in color
- No solvent – *low odor and low VOC*
- No isocyanate
- Notched trowel ridges hold firm
- Good workability – *even at low temperature*
- Fast initial grab and curing time – *no edge curling*
- Non-flammable, non-hazardous
- Pail - 3 Packs Per Pail – *less wastage*

### APPLICABLE TESTS / STANDARDS

- VT-632 meets the requirements of:
- Low VOC - USEPA Method 24 under SCAQMD Rule 1168

### APPLICATION

- Installing various types of artificial grass or carpet (polypropylene, rubber, polyurethane; tufted or woven) floor coverings and golf driving range.

### PREPARATION

- The artificial grass sheets must be unrolled several hours before installation works so as to reduce internal tensions caused by packaging.
- Subfloor must be solid and structurally sound, level, smooth, clean, permanently dry, no indentations and anti-adherents, as well as resistant to pressure.
- Subfloor must be free of dust, dirt, grease, wax, loose paint, oil, sealers of **ANY** type, curing compounds, bond breakers, asphaltic residue, liquid adhesive remover, strippers, chemicals, or any other foreign substances that can potentially affect bonding. Cleaning the subfloor with an industrial vacuum cleaner is recommended.
- If installation site is a sport field, the base must be load-bearing and suitable as sports grounds without any defects. The sport field base must be equipped with proper drainage and must be solid and firm according to the relevant requirements.
- The subfloor substrate must meet the artificial grass manufacturer's standards and regulations for the type and intended use.
- Recommended air temperature during installation – between 10 °C – 35 °C, Relative Humidity – between 30 % and 75 %, subject to the requirements specified by floor manufacturer.

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**VT-632****Artificial Grass  
Adhesive****APPLICATION  
DIRECTION****Sausage sachet:**

1. Place the sausage sachet in a suitable caulking gun and snip off the end. Cut the tip off the nozzle to suit the application.
2. Extrude the adhesive to the appropriate areas where the floor coverings will be laid over.

**Packs in Pail:**

1. Remove the cover and cut open the foil liner. Once open, the entire contents should be used within a short period of time.
2. Spread the adhesive with the proper notched trowel, apply uniformly on the subfloor. Avoid adhesive pools and excessive adhesive thickness by passing the trowel evenly through the adhesive at a 45 degree angle.
3. If the artificial grass is installed with jointing strips, spread the adhesive evenly along the entire surface of the jointing strips.
4. Only apply enough adhesive to work within working time (30 minutes). Lay most floor coverings into adhesive immediately or within working time, correctly position it and press down firmly to ensure good overall contact.
5. Roll floor coverings using the 25-35kg roller shortly after installation in both lengthwise and widthwise directions. During all bonding, it must be controlled that full contact between floor coverings and subfloor is achieved. Roll again in both directions 60 minutes after being laid.
6. Placing weights on the grass sheets is recommended in order to avoid ineffective bonding caused by floor irregularities.
7. Restrict foot traffic for a minimum of 24 hours.
8. Follow instructions given by the artificial grass manufacturer during installation.

**COVERAGE**

| Backing of Grass Sheets | Trowel Size                                 | Coverage (1 Litre/ 1.64 KG) |
|-------------------------|---|-----------------------------|
| Smooth                  | Square-notched trowel<br>4 mm x 4 mm x 4 mm | ~1.6 m <sup>2</sup>         |
| Coarse                  | Square-notched trowel<br>6 mm x 6 mm x 6 mm | ~0.9 m <sup>2</sup>         |

- If jointing strip of 40 cm width is used for installation, recommended coverage is 0.30 – 0.35 kg per meter.

**CLEAN UP**

- Can be cleaned up with acetone or mineral spirits when wet.
- Cured materials can only be removed mechanically.

**LIMITATIONS**

- Do not apply over any acrylic primer or sealer.
- Do not thin down the adhesive with solvent.
- Resistant to water, dilute acids, and diluted caustic solutions, temporarily resistant to fuel, animal fats and oils, not resistant to organic acids, concentrated caustic solutions.

**CAUTION**

Keep out of reach of children. Contains aminosilane. May produce an allergic reaction. Safety data sheet available on request. For further health and safety information, consult the latest safety data sheet.

**LEGAL NOTES**

Every endeavour has been made to ensure that the information given herein is true and reliable but it is given only for the guidance of our customers. The company cannot accept any responsibility for the loss or damage that may result from the use of the information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm suitability of this product by their own tests.