



VITAL TECHNICAL SDN. BHD.

Technical Data Sheet

VT-232

Eco Nails

(Formerly known as 'Low VOC Construction Adhesive')



Issuance date: 04/06/2009

Revision date: 18/08/2023

Revision No.: 23-02

VT-232 Eco Nails

Construction Adhesive Sealant



BASE

Synthetic rubber

PHYSICAL STATE

Thick paste

COLOUR

Light Brown

OPEN TIME

Max. 5 minutes
(at 25 °C & 50% R.H.)

CURING TIME

24 – 72 hours

PACKAGING

350 g/cartridge
(24 cartridges/carton)
5.0 kg/ tin can
(4 cans/carton)

SHELF LIFE

18 months (cartridge)
18 months (tin can)

STORAGE

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

APPLICATION TEMPERATURE

5 °C – 38 °C

SERVICE TEMPERATURE

-30 °C – 60 °C

DESCRIPTION



VT-232 is a one-component, paste-like construction adhesive sealant formulated to bond a variety of common construction materials. Specially formulated to achieve superior performance and be environmental friendly (APEO, Formaldehyde and Phthalate free) and complied with the stringent requirements of the Leadership in Energy and Environmental Design (LEED) v4.1 credit and stringent requirements of Singapore Green Building Product Labelling Scheme.

VT-232 has a strong initial grab, superior adhesion and will not slump on vertical surfaces. It is suitable for heavy-duty general construction, remodelling, maintenance and repair projects.

TECHNICAL DATA

Curing system	: Solvent evaporation	
Specific gravity	: 1.22 g/mL	
Lap shear strength	: 4.0 MPa	ASTM D1002 (Wood-to-wood)
Solid content	: 70 %	
Freeze/Thaw stability	: 5 cycles	
Low VOC compliance	: Yes	SCAQMD Rule 1168
VOC content	: 18.06 g/L	USEPA Method 24
Pedestal overturning moment	: 170.52 N/m	CISCA 2007 – Section 6

FEATURES

- Certified Green Adhesive
- Low VOC
- APEO-, Formaldehyde- and Phthalate- free
- Non-drip paste
- Strong initial grab
- Bonds most materials

APPLICABLE TESTS / STANDARDS

- VT-232 meets the requirements of:
- Leadership in Energy and Environmental Design (LEED) v4.1 EQ compliant
 - Singapore Green Building Product Labelling Scheme (SGBPLS) certified
 - Tested with CISCA 2007- Section 6: Pedestal Overturning Moment Test
 - Low VOC - USEPA Method 24 and SCAQMD Method 303-91 under SCAQMD Rule 1168

APPLICATION

- Ideal for bonding of skirting boards of wood and PVC, particleboard, masonry, aluminium, galvanized iron, steel, concrete, fibrous cement sheeting, wall brick, concrete and floor panels. It is recommended for bonding pedestals of raised access floors to cement floor screed, whereby the adhesion in this application is shown excellent in CISCA 2007- Section 6: Pedestal Overturning Moment Test.

APPLICATION DIRECTION

1. Surfaces must be clean, dry and free of dirt, grease, oil or water.
2. For a neat finish, apply masking tape and remove it before construction adhesive skins over.
3. Cut tip off and puncture the internal foil seal with nozzle. Cut nozzle at 45° angle to desired bead-width and apply to substrate with cartridge gun.
4. **Two-way contact** (Lighter substrate bonding): Apply adhesive onto substrate to be bonded, press firmly, and pull apart. Allow to tack-off for 10 to 30 seconds and press firmly together again. Contact areas should be tapped with a rubber mallet to ensure intimate contact.
5. **One-way method** (Heavier substrate bonding): Apply adhesive onto substrate to be bonded, press firmly, and securely fasten them together (clamp, nail, screw, etc.). Retain fastening for a minimum of 24 hours.
6. Any wet or partially wet adhesive can be removed with a piece of cloth. Dried adhesive is best removed with scraper or by sanding.
7. **For raised floor pedestal:** Apply adhesive of 2 - 4 mm thickness to the pedestal base with a scraper. Place the pedestal onto floor with a twisting motion. Adhesive oozed out from pedestal should not exceed 5mm. Do not reposition the pedestal after adhesive is applied for >15 minutes.

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COVERAGE A 350 g cartridge will cover 10 meters of 6 mm bead.

LIMITATION

- Not recommended for Polystyrene (Styrofoam).
- Not recommended mirror bonding.
- Not suitable for outdoor use.

CAUTION Highly flammable liquid and vapour. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust / fume / gas / mist / vapours / spray. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Call a POISON CENTRE or doctor if you feel unwell. Specific treatment (see supplemental first aid instruction on this label). If skin irritation or rash occurs: Get medical advice/attention.

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.