

Technical Data Sheet

PRODUCT DESCRIPTION

M917 Ecowood-MS is a single-component, 100%-solids, modified-silane adhesive designed for wood flooring. It is free of water, solvents, amines, isocyanates, phthalate plasticizers or epoxy resins. It offers low VOC while maintaining strong bonding strength and excellent elasticity that delivers comfort and sound reduction to the final flooring installation. With excellent coherence to diverse materials, M917 Ecowood-MS may be used for installing both engineered wood flooring, rubber flooring, and various vinyl sheets or planks and may be used in outdoor settings.



FEATURE

- 100% solids modified-silane polymer, free of water, solvents, amines, isocyanates, phthalates, and epoxy resins
- Low VOC with no formaldehyde
- Flexible coverage for application
- High elasticity for comfort and sound reduction
- Easy to trowel and easy clean-up
- Suitable for various types of indoor flooring and substrates (porous & nonporous)
- Weather and water resistant and can be used for outdoor or wet areas

SUBSTRATE PREPARATION

1. The surface must be flat, with a tolerance of no more than 4 mm in 3 m (3/16 in. over any 10-foot span), if not otherwise specified as per the installed flooring manufacturer.
2. Thoroughly clean the substrate to remove all contaminants that could prevent a strong bond, such as dust, dirt, oil, grease, paint, curing agents, sealers, and loose debris.
3. Concrete surfaces should be porous and have a textured profile.
4. Any concrete that is nonporous, glass-like, or overly smooth should be mechanically profiled using methods like shot-blasting or diamond grinding to achieve the required texture.
5. Verify that all concrete, underlayment, and patches are fully cured and that the substrate is free from any moisture issues or hydrostatic pressure before.

PRODUCT APPLICATION

1. M917 Ecowood-MS is ready-to-use, with no mixing necessary. NEVER mix or dilute M917 Ecowood-MS with water.
2. During the installation and curing period, the indoor ambient temperature should be maintained between 10-30°C (50-86°F).
3. Select a proper notched trowel according to the installed floor type and apply the adhesive evenly on the substrate. The flooring installation must be completed within 60-120 minutes after application, with adjustments made based on actual temperature conditions.

4. After flooring installation, allow at least 24 hours for curing, with a standard curing rate of 3mm/24 hours based on the wood flooring adhesive. If the actual ambient temperature varies, the curing rate may be adjusted accordingly. Once the adhesive has sufficiently cured, the next phase of construction can proceed.
5. Clean all tools with solvent, such as alcohol, while wet; remove mechanically if cured.

CONSUMPTION

- For Engineered Wood Flooring (B5, B11 Notch): Approximately 0.8-1.2 kg/m², according to substrate conditions.
- For Vinyl Plank or Sheet (A2 Notch): Approximately 0.4 kg/m², according to substrate conditions.

LIMITATIONS

- M917 Ecowood-MS will start to cure immediately when exposed to air; keep the product properly sealed when not using.
- Never install over substrates containing asbestos.
- Ensure the surface is completely clean of old adhesives, including cutback residue.
- Do not use flooring that requires a nail-down installation.
- Always follow the installed flooring manufacturer's installation guidelines.
- Avoid areas with known hydrostatic moisture issues.
- The substrate temperature must be between 10-30°C and ambient RH between 25-75% to ensure adequate curing.

PACKAGING & STORAGE

- Stored in separate tin foil bags in a plastic pail to maximize sealing.
- Sizing available upon request; common sizing include 15kg, 18kg, and 20kg.
- Store indoors at 10-30°C, avoiding freezing and direct sunlight.
- Under appropriately sealed conditions M917 Ecowood-MS should have a shelf life of at least 12 months from production date and remains usable as long as the adhesive does not harden.

TECHNICAL PARAMETERS

Adhesive type	Silane-Modified Polymer
Density	1.4 kg/L
Color	Brown
Wait Time / Tack Time	0 min
Open Time	60-120 min
Free Formaldehyde (GB50325-2020)	0 g/L
Total VOC (GB33372-2020)	<20 g/L
Bond Strength	
Vinyl, Rubber and other Resilient Flooring	>2.0 MPa
Engineered Wood, Laminate, and similar	>3.0 MPa

SAFETY INFORMATION

PLEASE READ THE SAFETY DATA SHEET THOROUGHLY PRIOR TO APPLYING THE PRODUCT

Ensure suitable PPE (Personal Protective Equipment) such as protective gloves, respiratory, face, skin and eye protection are worn at all times while handling this product. Avoid breathing dust, fumes, gas, mist, vapors or spray. Avoid contact with eyes and skin. If this product comes in contact with skin, rinse with soap and plenty of water. If the product comes in contact with eyes, wash out immediately with water. Ensure adequate ventilation during mixing and application. Wash contaminated clothing before reuse. Keep out of the reach of children. Call a doctor if you feel unwell. Safety Data Sheet (SDS) is available on request.

TECHNICAL SERVICES

Adhere to all product limitations, and if unsure about a particular application, contact Morient Mortar at:

USA: (908) 809-5672

International: (0086) 400-878-0800

Email: info@msyh.com.cn