

Technical Data Sheet

SPIDER ADHESIVES MS-X57

Easy Flow Wood Flooring Adhesive, Flexible and Elastic



Key Features

- Moisture controlling modified silane adhesive
- Good sound reduction properties
- Environmental protection: solvent-free, formaldehyde-free, toluene-free, isocyanate-free, PVC-free
- Low viscosity and excellent operating performance for easy construction
- 100% solid content: no shrinkage after curing, preventing delamination, hollowing, or cracking
- Provides moisture-proofing, thermal conductivity, and sound insulation
- Durable temperature range: -20°C to 80°C



SOUNDPROOF



ENVIRONMENTAL FRIENDLY



WATERPROOF



FIRE RESISTANT



ANTI-MICROBIAL



INDENT RESISTANT

Specifications:

Indicator		Parameter	Remarks
Appearance	Color	Beige or Brown	Color can be customized
	Smell	Odor-less	
	VOC	≤5%	
Viscosity Pa. S		800~2000	Tested under: 23°C×50%RH
Solid content		100%	
Density		≈1.40g/cm ³	tested under 23°C
Fluidity		Low viscosity, semi-flowing	
Construction characteristics	Surface dry time	60-100min	
	Open time	40~60min	Tested under: 23°C×50%RH
	Light pedaling interval time	24hrs	23°C×50%RH
	Sanding/Finishing interval time	3days	23°C×50%RH
Mechanical property	Shore A hardness	40	ISO 868
	Elongation at break (cured at 23°C for 14 days)	≥200%	ISO 37, No.1 test piece
	Tensile strength (cured at 23°C for 14 days)	≥1.6MPa	
	Adhesive Strength (Wood board to Concrete)	≥1.8N/mm ²	ISO 6238, wood/timber
Temperature performance	Durable temperature range	-20°C~80°C	
Application Rate	Scratch coating method	about 600ml/m ²	

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Important Information

- All surfaces must meet NWFA, ASTM, or equivalent guidelines
- Doors and windows must be installed, and the HVAC running to replicate living environment conditions at the job site
- Temperature: 60°F to 75°F (15°C to 24°C)
- Relative Humidity: 40% to 75%
- Acclimate materials to acceptable jobsite conditions.
- Suitable for use above grade, on grade, and below grade.
- Do not use on subfloors with excessive moisture or hydrostatic pressure.
- It is necessary to read the Material Safety Data Sheet (MSDS) for safety recommendations prior to application.

Recommended Use

- Commercial and residential applications
- For properly prepared absorbent and non-absorbent subfloors
- Compatible with:

3/4" solid hardwood up to 8" in width

Engineered hardwood without dimensional limitation

Wood flooring with tongue-and-groove configurations

SPC, WPC, and LVT flooring

Wall panel bonding

Subfloors and Substrates

A preparação adequada de contrapisos e substratos é essencial para garantir uma instalação de piso durável e de alta qualidade. Cada tipo de substrato, seja concreto, gesso, madeira, terrazzo ou azulejos cerâmicos, possui requisitos específicos para assegurar uma base estável. Seguir padrões da indústria, como o ASTM F710 para concreto, e utilizar tratamentos apropriados, como primers, lixas ou compostos niveladores, ajuda a criar superfícies lisas, secas e estruturalmente sólidas. Ao seguir essas diretrizes, é possível maximizar o desempenho e a durabilidade das instalações de pisos resilientes.

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Subfloors and Substrates

- Concrete: Must meet ASTM F710 standards. Ensure surfaces are permanently dry, smooth, flat, and structurally sound. Concrete must be cured for a minimum of 30-60 days and have a compressive strength of at least 3,500 psi.
- Gypsum: Consolidate loose, friable, or dusty gypsum with an appropriate primer. Ensure it meets minimum compressive strength requirements.
- Wood Subfloors: Approved for OSB, plywood, particleboard, and wooden planks suitable for resilient flooring installations.
- Terrazzo and Ceramic Tiles: Remove maintenance product residues and abrade surfaces with 40- or 60-grit sandpaper for better adhesion
- Leveling Compounds: Treat rough surfaces with approved leveling compounds. Refer to manufacturer guidelines.

Application and Coverage

1. Use the recommended trowel for uniform adhesive application.
2. Avoid pooling. Place the wood flooring immediately and press firmly.
3. Ensure 90% adhesive transfer to the underside of each flooring piece.
4. Remove wet adhesive with cleaning towels. Dried adhesive can be removed manually.

Material to be Installed	Recommended Trowel	Coverage
3/4" Solid wood ≤ 8" width	1/4" x 1/2" x 1/4" V-notch	40-55 sq. ft./gal.
Engineered wood, unlimited dimension	3/16" x 1/2" x 1/4" V-notch	55-70 sq. ft./gal.
Wood flooring with tongue and groove	3/16" x 1/2" x 1/4" V-notch	Up to 35 sq. ft./gal.
Cork underlayment	5/64" x 3/32" x 7/64" V-notch	Up to 100 sq. ft./gal.

Sealant Consumption: For full area application, approximately 600 ml/m². For point application, approximately 300 ml/m².

Disclaimer

The manufacturer assumes no responsibility for the suitability of this product for specific use cases, as application conditions are beyond its control. Directions are based on reliable research and testing but do not imply liability.

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Product description TDS

MS-X57 Flexible & elastic Easy-flow Floor Adhesive

Substrate: MS Polymer

MS-X57 is a non-solvent floor adhesive based on silane-modified polymer, a one-component moisture-curing adhesive. This product is specially designed for interior floor coverings and is also suitable for bonding wall panels. Suitable for bonding raw wood boards, composite wood boards, SPC boards, WPC boards, LVT floors, etc. After the colloid is cured, it has the remarkable characteristics of flexibility, good resilience, and quietness.

Prominent advantage

- Environmental protection, free of solvent, formaldehyde, toluene, isocyanate, PVC.
- Low viscosity glue, liquidity, excellent operating performance, easy pavement construction.
- 100% solid content, does not shrink after curing, the floor will not delamination, hollow, cracking.
- Moisture-proof, Thermal conductivity, Sound insulation.

Application Tips

- To ensure adhesion, paved concrete surface must be hardened, loose ground will affect the adhesion.
- For the floor with longer or wider side or for the uneven ground, the first step is to test flat before installation and then apply sealant, laying depressed.
- The applicable period of the sealant is related to the temperature and humidity of the environment, and it is easy to crust and reduce the operating time under high temperature and high humidity environment.
- For +5 °C ~ +40 °C suitable for construction, the recommended temperature and humidity: +10 ~ +30 °C, 30% RH ~ 80% RH.
- Due to the difference of floor and wood treatment, it is recommended to test the adhesiveness according to applicable conditions before use.

Sealant Consumption per square consumption:

(According to the flatness of the floor, there are differences in the shape of the bottom of the timber)

Full area application: 600ml / m² ling or point application: 300ml / m²

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Notice

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Packing

600ml/sausage 4gal/bucket

Storage

Shelf-life: 12 months in original packing.

Recommended storing temperature: 10 ~25 (not >45).

- Dry and cool condition can help to postpone the shelf-life.
- The shelf-life may be change rely on special packing materials.
- Please refer to the MSDS when handling, and also complying with rules of local law.