

M919 TWO-COMPONENT POLYURETHANE ADHESIVE



Technical Data Sheet

PRODUCT DESCRIPTION

M919 Two-Component Polyurethane Adhesive is a two-component, solvent-free reactive polyurethane adhesive designed and formulated for installing resilient flooring in demanding areas, such as high-traffic, high-load, exterior, and wet areas. Its high bonding strength is compatible with a wide range of flooring materials, including rubber sheet and tiles, vinyl sheet and tiles, industrial flooring, sports flooring, and artificial turf.



FEATURE

- Strong shear bond to restrict flooring deformation
- High hardness adhesive-film for durable strength
- Excellent temperature and moisture resistance
- Permanent bond for high-load and high-traffic settings
- Available for both interior and exterior applications

SUITABLE SUBSTRATE

M919 Two-Component Polyurethane Adhesive is suitable for leveled substrate with adequate compressive and tensile bond strength; it may be used over both absorbent and nonabsorbent substrates, including concrete slabs, self-leveling compounds, plywood boards, metal surfaces, and underfloor heating systems.

SUBSTRATE PREPARATION

M919 Two-Component Polyurethane Adhesive is a high-demanding adhesive with strong cohesion. The substrate must be sound, dry, load-bearing, free of cracks and contaminants, and leveled as per floor covering requirements. Proper priming, reinforcing, and leveling should be performed for successful flooring installation. Smooth and nonporous substrates should be properly sanded to form a proper bonding surface.

PRODUCT APPLICATION

Mixing & Preparation

Bring all components to room temperature before use and properly acclimate the floor coverings. Combine Part A and Part B of M919 at a 5:1 weight ratio. Mix thoroughly, scraping the bottom and sides of the container to ensure a uniform consistency; failure to do so may result in improper hardening or uncured spots.

Application

Apply the adhesive evenly using a notched trowel (A2, A5, B1, or B2). While M919 allows for immediate installation, the open time is 40–60 minutes depending on environmental conditions and substrate porosity. For stronger initial grab, allow the adhesive to tack for approximately 20 minutes before laying the flooring. Only spread as much adhesive as can be covered within the working window to ensure full contact with the floor backing.

Installation & Compaction

Lay the flooring into the adhesive bed, ensuring all ridges are flattened. Use a cork pad or heavy roller to expel trapped air, and place weights on uneven areas if necessary. To guarantee a permanent bond, re-roll the surface after 2 hours, paying close attention to the security of all floor edges and seams.

Cleaning & Maintenance

M919 is not a water-based product. Use a green cleaning solvent to remove wet adhesive stains immediately. Once the adhesive has cured, it can only be removed through mechanical methods (scraping or sanding).

PRODUCT DATA

Packaging	Component A: 10kg ; Component B: 2kg
Shelf Life	Min. 12 months
Mixing Ratio	A:B = 5:1 Parts by Weight
Color	Component A: Dark Grey ; Component B: Transparent
Consumption	300-400 g/m ²
Tack Time	0 min
Open Time	40-60 min
Minimum Substrate Temperature	>10°C
Foot Traffic	12-24 hrs
Final Cure	3-5 days

**Varies according to jobsite conditions and substrate porosity.*

CONSUMPTION

Floor Backing	Toothings	Consumption approx.
Smooth / Sanded eg., Rubber Tile & Sheet	A2 / A5	300-350 g/m ²
Coarsed / Textured eg., Linen, Sports Flooring	B1 / B2	400-500 g/m ²

IMPORTANT NOTES

Optimal application temperature for M919 is 18-25°C. Substrate temperature should not fall below 10°C and ambient relatively humidity not exceeding 75%. Low temperature and high moisture curing environment will lead to prolonged curing time, whereas high temperature and low humidity environment will significantly shorten product open time.

M919 should be protected from moisture rising from the substrate. Although it is weather-resistant after cured, rising moisture from the substrate during the initial curing will lead to weakened bond and even bond failure. Moistureproofing means must be applied when overall substrate moisture content exceeds and remains to exceeds 6% by mass.

PACKAGING & STORAGE

- Packaging with Component A: 10kg/pail, Component B: 2kg/pail
- Store in a cool, dry environment
- Low-temperature storage may increase viscosity; before use, allow the product to reach room temperature (at least 15°C)
- Under appropriate conditions this product should have a shelf life of 12 months

EXECUTION STANDARD

JC/T 550-2019

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:

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