

AD-599MR: ONE-PART POLYURETHANE ADHESIVE

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

AD-599MR

One-Part, Polyurethane Adhesive
Adhésif polyuréthane à un composant
A.C.S. 888.105.10



AD-599MR is a one-part moisture-curing polyurethane with outstanding adhesion properties especially designed for American Biltrite's rubber and vinyl flooring. Fast setting, low VOC emitting and unaffected by high moisture and high pH concrete conditions. Provides ultimate performance under heavy traffic and rolling loads. Recommended for all radiant flooring installations.

APPLICATION

	Subfloor, porous and non-porous
	Rubber and Vinyl Flooring
Type of Installation	Immediately after spreading
Reusable	Yes, if the container is properly closed and the adhesive is covered with a plastic film
Working Time*	20-30 minutes
Trowel Depth/Width/Spacing	U-notched 0.8 mm x 1.6 mm x 0.8 mm (1/32" x 1/16" x 1/32")
Coverage**	Up to 13.93 sq. m/3.79 liters (150 sq. ft/US gallon)
SPECIFIC SUBFLOOR CONDITIONS PRIOR TO INSTALLATION	
pH (ASTM F710)	Up to 12***
Relative Humidity (RH) (ASTM F2170)	Maximum 95%***
Moisture Vapor Emission Rate (MVER) (ASTM F1869)	<15.0 lb./1,000 sq. ft/24 hours (<6.8 kg/93 sq. m/24 hours)***

* The working time can vary depending on ambient temperature and humidity as well as subfloor porosity, humidity, and temperature. Mat bond test is required as per ASTM F3311. Always ensure an adequate transfer of adhesive to the flooring backing.

** Adhesive coverage is supplied as a guideline for estimation purposes only.

*** **No humidity and pH test required if a moisture vapor retarder is present under all on- and below-grade concrete substrates. The surface must not show visible moisture on the surface at the installation.**

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SPECIFIC INSTRUCTIONS AFTER INSTALLATION

Roll the flooring in both directions with a 45 kg (100 lb.) sectional roller.

Clean up must be performed prior to adhesive curing with soapy water, rubbing alcohol, denatured alcohol, or methyl hydrate. Do not use mineral spirits.

Conservation of adhesive left over: Before closing the lid, press down the plastic film on top of adhesive in the pail to remove air and reduce formation of dry skin over the adhesive.

Protection:

- Up to 12 hours after the installation: no traffic;
- From 12 to 24 hours: Light traffic, heat welding;
- After 24 hours: Moderate to heavy traffic, initial maintenance.

ADHESIVE PROPERTIES

Polymer	Moisture-Cured Polyurethane
Color	White
Size	15,1 liters (4 US gallon), Metal pail
Solid content	100%
Storage conditions	Between 18°C and 27°C (65°F and 80°F)
Shelf life	12 months when stored in original packaging
VOC (SCAQMD rule #1168)	<40 g/liter (5.34 oz/US gallon)
Certification (Indoor Environmental Quality)	Indoor Advantage Gold (SCS-IAQ-11142)
LEED projects eligibility	See LEED v4 Matrix

Remarks:

- Refer to safety data sheet for further instructions.
- Wear suitable individual protection equipment while using the product.
- Keep out of reach of children.
- Protect against freezing during transportation and storage.

GENERAL WARRANTY

American Biltrite warrants that the adhesive will be free from manufacturing defects. The adhesive and flooring product form a system when installed in accordance with our installation instructions and will be warranted in accordance with American Biltrite's flooring product limited warranty.

Refer to the [Floor Preparation](#) and [Adhesive Quick Check Chart](#) documents.

Please note that technical web site documents prevail.

