

## AD-590: TWO-PART REACTIVE EPOXY ADHESIVE

### TECHNICAL DATA SHEET

#### PRODUCT DESCRIPTION



AD-590 is a fast setting, low VOC emitting two-part reactive epoxy with outstanding adhesion properties especially designed for American Biltrite's rubber and vinyl flooring. Provides ultimate performance under heavy traffic and rolling loads with exceptional indentation resistance properties. Recommended for all radiant flooring installations.

#### APPLICATION

	<b>Subfloor, porous and non-porous</b>
	<b>Rubber and Vinyl Flooring</b>
Type of Installation	Immediately after mixing
Pot life	75 minutes, once mixed
Working Time*	45 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 19 sq. m/3.79 liters (200 sq. ft/US gallon)
<b>SPECIFIC SUBFLOOR CONDITIONS PRIOR TO INSTALLATION</b>	
pH (ASTM F710)	8-11
Relative Humidity (RH) (ASTM F2170)	Maximum 90%
Moisture Vapor Emission Rate (MVER) (ASTM F1869)	<4.54 kg/93 sq. m/24 hours (<10.0 lb./1,000 sq. ft/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.

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#### MIXING INSTRUCTIONS

- Parts A and B are packaged to exact quantity ratios for maximum performance.
- Pour all material out of the Part B container into Part A. Place the cap back on the Part B container and turn the container upside down to ensure that all remaining material drains into the cap. Pour the remaining material into Part A.
- Always mix complete units. Do not add other materials to this mixture.
- Use a low-speed mixer to ensure that the Part A and Part B are mixed thoroughly to the consistency of a smooth, homogenous paste (generally achieved within 3 minutes). Inadequate mixing will cause bond failure. Avoid prolonged mixing. Do not allow the mixed product to sit in the container as the heat generated by the chemical mixture will reduce pot life.
- Immediately after mixing, apply the adhesive to the substrate.

#### 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.

Protection:

- Up to 6 hours after installation: no traffic;
- From 6 to 24 hours: Light traffic, heat welding;
- After 24 hours: Moderate to heavy traffic, initial maintenance.

#### ADHESIVE PROPERTIES

Polymer	Epoxy
Color	Beige
Size	Part A: 3.1 liters (0.82 US gallon) Part B: 0.45 liter (0.12 US gallon) Mix: approx. 3.56 liters (0.94 US gallon)
Storage conditions	Between 18 °C and 29 °C (65°F and 85°F)
Shelf life	18 months when stored in original packaging
VOC (SCAQMD rule #1168)	<12 g/liter (1.6 oz/US gallon)
Certification (Indoor Environmental Quality)	FloorScore
LEED projects eligibility	See <a href="#">LEED v4 Matrix</a>



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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.

