

Mor-Ad™ M-182 A&B Laminating Adhesive

Strong, Flexible, Two-Part Polyurethane Laminating Adhesive

FEATURES/BENEFITS

Description

Mor-Ad™ M-182 A&B Laminating Adhesive* is a strong, flexible urethane two-part structural polyurethane adhesive, designed to bond to a wide variety of substrates. **Mor-Ad™ M-182 A&B** is one product in the full line of Mor-Ad™ Laminating Adhesives, available in both one and two-part urethane adhesive designed for semi-continuous and continuous laminators.

Ease of Use

Mor-Ad™ M-182 A&B is easy to handle, use and apply via roll coater. Some features include:

- Solvent-free liquid with good flow and transfer properties
- Bonds strongly to a wide variety of materials
- Not dependent on moisture to cure.

Common applications for Mor-Ad™ adhesives include:

- Structural insulated panel (SIP) adhesion
- Garage doors
- Walk-in coolers & freezers
- Architectural panels
- Sunroom panels
- RV lamination
- Miscellaneous panel lamination

Available Sizes

Mor-Ad™ M-182 A&B is sold in 55 gallon steel drums.

PROPERTIES

Mor-Ad™ M-182 A&B Laminating Adhesive exhibits physical properties as indicated in Tables 1 and 2 when tested as represented. Review all instructions and (Material) Safety Data Sheet ((M)SDS) before use. Please contact DuPont at 1-866-583-2583 when additional guidance is required for writing specifications that include this product.

TABLE 1: Typical Physical Properties for Mor-Ad™ M-182 A&B Laminating Adhesive

Property	Part A	Part B
Appearance	Viscous Liquid	Viscous Liquid
Color	Clear-hazy amber	Pale straw
Solids, %	100	100
Specific Gravity	1.10	1.07
Viscosity @ 25°C	5000 cps	1100 cps
Flash point (°F)	>200 (93°C)	>200 (93°C)
Working and Cure Time	Refer to Table 2	Refer to Table 2

* Panels must be under pressure within the stated maximum working time. This information is based on a continuous thin film and is to be used as a guideline. Actual parameters must be verified at the facility where the product is to be used.

TABLE 2: Cure Schedule* for Mor-Ad™ M-182 A&B Laminating Adhesive

Application rate of 12 g/sq.ft. adhesive (129 g/sq.m.) High Pressure Laminate (HPL) to Fiber Reinforced Plastic (FRP)

Temperature	Maximum Working Time	Press Time
50°F (10°C)	172 Minutes	512 Minutes
55°F (13°C)	153 Minutes	428 Minutes
60°F (16°C)	137 Minutes	364 Minutes
65°F (18°C)	123 Minutes	313 Minutes
70°F (21°C)	112 Minutes	272 Minutes
75°F (24°C)	103 Minutes	239 Minutes
80°F (27°C)	95 Minutes	212 Minutes
85°F (29°C)	88 Minutes	189 Minutes
90°F (32°C)	81 Minutes	170 Minutes
95°F (35°C)	76 Minutes	153 Minutes
100°F (38°C)	71 Minutes	139 Minutes
105°F (41°C)	67 Minutes	127 Minutes

*Panels must be under pressure within the stated maximum working time. This information is based on a continuous thin film and is to be used as a guideline. Actual parameters must be verified at the facility where the product is to be used.

INSTALLATION

Use Conditions

A cure schedule detailing maximum working time and press time at varying temperatures for **Mor-Ad™ M-182 A&B Laminating Adhesive** can be found in Table 2.

Application

Mor-Ad™ M-182 A&B is designed to be applied via roll coater. Substrates should be laminated using the following parameters and panels should sit 24 hours before processing.

Curing

Mor-Ad™ M-182 A&B is not dependent on moisture to cure.

Notice

Contact your DuPont sales representative or local authorities for state and local building code requirements and related acceptances.

TABLE 3: Application Parameters for Mor-Ad™ M-182 A&B Laminating Adhesive

Property	Typical Value	Units
Mix Ratio (by weight or volume)	2 parts Mor-Ad™ M-182A 1 part Mor-Ad™ M-182B	-
Mix Viscosity @ 25°C	5000	cps
Pot Life* (280 grams @ 25°C)	60	min

HANDLING

WARNING: For Professional Use Only. Read and follow the entire Handling section and the Safety Data Sheets (SDSs, formerly MSDSs or Material Safety Data Sheets) carefully before use. The information below is designed to protect the user and allow for safe use and handling of DuPont™ products. Follow all applicable federal, state, local and employer regulations.

Precautionary Statements

- **Mor-Ad™ M-182 A&B Laminating Adhesive** is moisture reactive and must be protected from undue exposure to moisture.
- Use appropriate personal protective equipment during clean-up, including gloves and glasses or goggles.
- Use only in well ventilated area away from open flames, sparks, or excessive heat.
- Avoid prolonged or repeated breathing of vapors.
- Avoid unnecessary contact with skin and eyes.

Clean Up and Purge

- To clean up **Mor-Ad™ M-182 A&B** before it has cured, use DBE (dibasic ester) or propylene carbonate.
- Use all solvents with care. Read and understand the (M)SDS provided with the solvent.

Shelf Life and Storage

- Ideal storage temperatures for **Mor-Ad™ M-182 A&B** are between 50-75°F (10-24°C).
- When stored as directed, and in the original unopened containers, at 70°F (21°C), **Mor-Ad™ M-182 A&B** has a shelf life of 1 year from the date of manufacture.
- Containers of **Mor-Ad™ M-182 A&B** should be stored under cover and protected from contact with rain or snow. Water should not be allowed to accumulate on the drums or pails where it can be drawn into the containers.
- Once opened, containers of the adhesive should be used immediately or protected by a blanket of dry nitrogen when standing unused.

Disposal

Dispose of any residual DuPont™ product, coated debris, or solvent in accordance with applicable federal, state, and local government regulations.



**For more information visit us at
building.dupont.com/morad
or call 1-866-583-2583**

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43-D100115-enUS-0619 CDP