

DuPont™ Betafuse™ 648 Laminating Adhesive

One-Part Urethane Adhesive for Continuous Laminators

FEATURES/BENEFITS

Description

DuPont™ Betafuse™ 648 Laminating Adhesive is a one-part, moisture-cure urethane adhesive designed for continuous laminators. Betafuse™ 648 is one product in the full line of Betafuse™ Laminating Adhesives designed for semi-continuous and continuous laminators.

Ease of Use

Betafuse™ 648 is easy to handle, use and apply. Some features include:

- Solvent-free liquid with good flow and transfer properties
- Bonds strongly to a wide variety of materials
- Excellent resistance to heat, cold, and moisture

Common applications for Betafuse™ adhesives include:

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

Available Sizes

Betafuse™ 648 is sold in totes holding 2400 lbs (1089kg) of product.

PROPERTIES

Betafuse™ 648 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 Betafuse™ 648 Laminating Adhesive

Property	Typical Value
Appearance	Syrupy liquid
Color	Light straw
Solids, %	100
Viscosity (Brookfield RVT, #4 Spindle, 10 rpm), cPs @ 25°C	9200 nominal
Working and cure time	Refer to Table 2
Density	9.26 lbs/gal (1.11 kg/L)
Flash point (Setaflash), °F	>200 (93°C)

TABLE 2: Cure Schedule* for Betafuse™ 648 Laminating Adhesive

Application rate of 12 g/sq.ft. adhesive (129 g/sq.m.) and 1 g/sq.ft. water (11 g/sq.m.)

Temperature	Maximum Working Time	Press Time
60°F (16°C)	60 Seconds	128 Seconds
65°F (18°C)	57 Seconds	122 Seconds
70°F (21°C)	55 Seconds	117 Seconds
75°F (24°C)	52 Seconds	112 Seconds
80°F (27°C)	50 Seconds	107 Seconds
85°F (29°C)	48 Seconds	102 Seconds
90°F (32°C)	45 Seconds	98 Seconds
95°F (35°C)	43 Seconds	94 Seconds
100°F (38°C)	42 Seconds	90 Seconds

* 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 **DuPont™ Betafuse™ 648 Laminating Adhesive** can be found in Table 2.

Application

Betafuse™ 648 is designed to be applied via extrusion-type equipment in order to minimize atmospheric moisture contact. Water mist on the adhesive surface is recommended to ensure uniform cure rate.

Notice

ICC Evaluation Service, Inc. (ICC-ES) has confirmed that **Betafuse™ 648** complies with the provisions of the 2021 International Building Code (2021 IBC), and the 2021 International Residential Code (2021 IRC). This confirmation, as evidenced in ICC-ES evaluation report ESR-1023, provides guidance to code officials faced with approving the use of **Betafuse™ 648** these codes. The evaluation report is available online at www.icc-es.org.

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

HANDLING

WARNING: For Professional Use Only. Read and follow the entire Handling section of 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

- **Betafuse™ 648 Laminating Adhesive** is moisture reactive and must be protected from undue exposure to moisture.
- Use only in well ventilated area away from open flames, sparks, or excessive heat.
- Avoid contact with skin and eyes. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Clean Up and Purge

- To clean up **Betafuse™ 648** before it has cured, use DBE (dibasic ester) or propylene carbonate.
- Use all solvents with care. Make sure there is adequate ventilation. Read and understand the MSDS provided with the solvent.

Shelf Life and Storage

- Ideal storage temperatures for **Betafuse™ 648** are between 50-75°F (10-24°C).
- When stored as directed, and in the original unopened containers, at 70°F (21°C), **Betafuse™ 648** has a shelf life of 6 months from the date of manufacture.
- Containers of **Betafuse™ 648** should be stored under cover and protected from contact with rain or snow. Water should not be allowed to accumulate on the totes 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 and sealed.

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
or call 1-866-583-2583**

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