

Bulletin: #15-01

Date: 01/05/2015 Revised: 11/19/2018, 11/24/2021

ADHESIVES: SEASONAL CONSIDERATIONS

Duro-Last® offers multiple choices of adhesives for insulation and membrane attachment. Care must be taken when ordering these products to ensure that the product is a good match for the environmental conditions at the time of shipping, storage and installation. This Technical Bulletin is intended to provide an overview of the seasonal weather guidelines for each adhesive product. Refer to each Product Data Sheet for complete application requirements.

WARNING! Adhesives are highly flammable. Take precautions to not expose adhesives to any ignition source. Adhesives within pre-pressurized containers should be kept at proper storage temperatures. Warming blankets will only maintain the core adhesive temperature at the time it is wrapped. Only heat adhesives by heating the ambient air around the adhesive units. Ensure sufficient time for heating of adhesives.

A. WB II Adhesive (water-based) (pail) (for non-fleece and fleece membranes)

Keep from freezing. If the product freezes, do not use.

Shipping: Product must be shipped in temperatures at or greater than 50° F (10° C). Temperature-controlled vehicles may be available.

Storage: Store product out of direct sunlight, and between 60° F (10° C) and 80° F (27° C), for maximum shelf life.

Installation: Apply product when the ambient and surface temperatures are at least 50° F (10° C) and rising. The product itself must be between 60° F (10° C) and 80° F (27° C) at the time of installation.

Manufacturing Facility Exceptions: To accommodate varying climates, Duro-Last will ship from the following facilities on the given (checked) months. All temperature criteria stated above must still be followed.

Manufacturing Facility	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Saginaw, MI					✓	✓	✓	✓	✓	✓		
Grants Pass, OR					✓	✓	✓	✓	✓	✓		
Jackson, MS	✓*	✓*	✓*	✓*	✓	✓	✓	✓	✓	✓	✓*	✓*
Sigourney, IA					✓	✓	✓	✓	✓	✓		
Carrollton, TX	✓*	✓*	✓*	✓*	✓	✓	✓	✓	✓	✓	✓*	✓*
Ludlow, MA					✓	✓	✓	✓	✓	✓		

* ColdMark® Cold Temperature Indicator (CTI) attached to at least one pail per shipment.

B. Duro-Last Solvent-Grip® Spray Adhesive (pre-pressurized container) (for non-fleece membranes except Duro-Last EV)

Keep from freezing. If the product freezes, it may still be used after being warmed up to a minimum temperature of 70° F (21° C).

Shipping: Product must be shipped in temperatures at or greater than -30° F (-34° C). Temperature-controlled vehicles may be available.

Storage: Store product out of direct sunlight, and between 70° F (21° C) and 90° F (32° C), for maximum shelf life.

Installation: Apply product when the ambient and surface temperatures are at least 40° F (5° C) and rising. The product itself must be at least 70° F (21° C) at the time of installation.

Manufacturing Facility Exceptions: Duro-Last will ship from all facilities during all months of the year. All temperature criteria stated above must still be followed.

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C. SB IV Adhesive (solvent-based) (pail) (for non-fleece membranes)

Keep from freezing. If the product freezes, do not use.

Shipping: Product must be shipped in temperatures at or greater than 40° F (5° C). Temperature-controlled vehicles may be available.

Storage: Store product out of direct sunlight, and between 60° F (10° C) and 80° F (27° C), for maximum shelf life.

Installation: Apply product when the ambient and surface temperatures are at least 40° F (5° C) and rising. The product itself must be between 60° F (10° C) and 80° F (27° C) at the time of installation.

Manufacturing Facility Exceptions: To accommodate varying climates, Duro-Last will ship from the following facilities on the given (checked) months. All temperature criteria stated above must still be followed.

Manufacturing Facility	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Saginaw, MI					✓	✓	✓	✓	✓	✓		
Grants Pass, OR					✓	✓	✓	✓	✓	✓		
Jackson, MS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sigourney, IA					✓	✓	✓	✓	✓	✓		
Carrollton, TX	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ludlow, MA					✓	✓	✓	✓	✓	✓		

D. CR-20 (HFO) Adhesive (pre-pressurized container) (for insulations, roof boards and fleece membranes)

Keep from freezing. If the product freezes, do not use.

Shipping: Product must be shipped in temperatures at or greater than 40° F (4° C). Temperature-controlled vehicles may be available.

Storage: Store product out of direct sunlight, and between temperatures of 45° F (7° C) and 90° F (32° C), for maximum shelf life.

Installation: Apply product when the ambient and surface temperatures are between 30° F (-1° C) and 100° F (37° C). The product itself must be between 70° F (21° C) and 85° F (29° C) at the time of installation.

Ambient / Surface Temperature	Time Before Walking In
30° – 60° F (-1° - 15° C)	6 – 10 minutes
60° – 80° F (15° - 26° C)	3 – 6 minutes
80° – 100° F (26° - 37° C)	1 – 3 minutes

ColorWise® Temperature Warning Nozzles are included with each kit. When the chemical temperature drops too low, the nozzle color will change from clear to blue. This indicates that the chemical should not be dispensed. When the chemical is warmed up and the nozzle returns to a clear color, the chemical can be dispensed.

Manufacturing Facility Exceptions: To accommodate varying climates, Duro-Last will ship from the following facilities on the given (checked) months. All temperature criteria stated above must still be followed.

Manufacturing Facility	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Saginaw, MI					✓	✓	✓	✓	✓	✓		
Grants Pass, OR					✓	✓	✓	✓	✓	✓		
Jackson, MS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sigourney, IA					✓	✓	✓	✓	✓	✓		
Carrollton, TX	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ludlow, MA					✓	✓	✓	✓	✓	✓		

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E. CR-20 (HFC) Adhesive (pre-pressurized container) (for insulations, roof boards and fleece membranes)

Keep from freezing. If the product freezes, do not use.

Shipping: Product must be shipped in temperatures at or greater than 40° F (4° C). Temperature-controlled vehicles may be available.

Storage: Store product out of direct sunlight, and between temperatures of 60° F (15° C) and 90° F (32° C), for maximum shelf life.

Installation: Apply product when the ambient and surface temperatures are between 40° F (4° C) and 100° F (37° C). The product itself must be between 70° F (21° C) and 85° F (29° C) at the time of installation.

Ambient / Surface Temperature	Time Before Walking In
40° – 60° F (4° - 15° C)	6 – 10 minutes
60° – 80° F (15° - 26° C)	3 – 6 minutes
80° – 100° F (26° - 37° C)	1 – 3 minutes

ColorWise® Temperature Warning Nozzles are included with each kit. When the chemical temperature drops too low, the nozzle color will change from clear to blue. This indicates that the chemical should not be dispensed. When the chemical is warmed up and the nozzle returns to a clear color, the chemical can be dispensed.

Manufacturing Facility Exceptions: To accommodate varying climates, Duro-Last will ship from the following facilities on the given (checked) months. All temperature criteria stated above must still be followed.

Manufacturing Facility	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Saginaw, MI					✓	✓	✓	✓	✓	✓		
Grants Pass, OR					✓	✓	✓	✓	✓	✓		
Jackson, MS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sigourney, IA					✓	✓	✓	✓	✓	✓		
Carrollton, TX	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ludlow, MA					✓	✓	✓	✓	✓	✓		

F. TRUFAST® Adhesive (pre-pressurized container) (for insulations, roof boards and fleece membranes)

Keep from freezing. If the product freezes, do not use.

Shipping: Product must be shipped in temperatures at or greater than 40° F (4° C). Temperature-controlled vehicles may be available.

Storage: Store product out of direct sunlight, and between temperatures of 60° F (15° C) and 90° F (32° C), for maximum shelf life.

Installation: Apply product when the ambient and surface temperatures are at or greater than 32° F (0° C). The product itself must be between 70° F (21° C) and 85° F (29° C) at the time of installation.

Manufacturing Facility Exceptions: This product is drop-shipped directly from, and at the discretion of, the manufacturer. Contact Duro-Last for availability.

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G. Duro-Fleece OMG Membrane Adhesive (bag-in-box and cartridge) (for fleece membranes)

Keep from freezing. If the product freezes, do not use.

Shipping: Product must be shipped in temperatures at or greater than 40° F (5° C). Temperature-controlled vehicles may be available.

Storage: Store product out of direct sunlight, and between 55° F (13° C) and 85° F (29° C), for maximum shelf life.

Installation: Apply product when the ambient and surface temperatures are between 40° F (4° C) and 100° F (37° C). The product itself must be at least 72° F (22° C) at the time of installation.

Manufacturing Facility Exceptions: This product is drop-shipped directly from, and at the discretion of, the manufacturer. Contact Duro-Last for availability.

From November 1st through early spring, the manufacturer will place freeze indicators under the shrink wrapping on every skid of **Duro-Fleece OMG Membrane Adhesive** shipped. If the freeze indicator indicates that the product has been subjected to freezing conditions, **do not** accept the shipment.

H. OlyBond500® Adhesive (bag-in-box) (regular and winter grade) (for insulations and roof boards)

Keep from freezing. If the product freezes, do not use.

Shipping: Product must be shipped in temperatures at or greater than 40° F (4° C). Temperature-controlled vehicles may be available.

Storage: Store product out of direct sunlight, and between temperatures of 55° F (12° C) and 85° F (29° C), for maximum shelf life.

Installation – Regular Grade: Apply product when the ambient and surface temperatures are between 40° F (4° C) and 100° F (37° C). The product itself must be at least 72° F (22° C) at the time of installation.

Installation – Winter Grade: Apply product when the ambient and surface temperatures are between 25° F (-3° C) and 65° F (18° C). The product itself must be at least 72° F (22° C) at the time of installation.

Manufacturing Facility Exceptions: This product is drop-shipped directly from, and at the discretion of, the manufacturer. Contact Duro-Last for availability. Regular Grade will be shipped unless Winter Grade is specifically requested.

From November 1st through early spring, the manufacturer will place freeze indicators under the shrink wrapping on every skid of OlyBond500 shipped. If the freeze indicator indicates that the product has been subjected to freezing conditions, **do not** accept the shipment.

I. OlyBond500® SpotShot Adhesive (cartridge) (regular and winter grade) (for insulations and roof boards)

Keep from freezing. If the product freezes, do not use.

Shipping: Product must be shipped in temperatures at or greater than 40° F (4° C). Temperature-controlled vehicles may be available.

Storage: Store product out of direct sunlight, and between temperatures of 55° F (12° C) and 85° F (29° C), for maximum shelf life.

Installation – Regular Grade: Apply product when the ambient and surface temperatures are between 40° F (4° C) and 100° F (37° C). The product itself must be at least 72° F (22° C) at the time of installation.

Installation – Winter Grade: Apply product when the ambient and surface temperatures are between 0° F (-17° C) and 65° F (18° C). The product itself must be at least 72° F (22° C) at the time of installation.

Manufacturing Facility Exceptions: This product is drop-shipped directly from, and at the discretion of, the manufacturer. Contact Duro-Last for availability. Regular Grade will be shipped unless Winter Grade is specifically requested.

From November 1st through early spring, the manufacturer will place freeze indicators under the shrink wrapping on every skid of OlyBond500 shipped. If the freeze indicator indicates that the product has been subjected to freezing conditions, **do not** accept the shipment.

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J. INSTA STIK™ Quik Set Adhesive (pre-pressurized container) (for insulations and roof boards)

Keep from freezing. If the product freezes, it may still be used after being warmed up to between 50° F (10° C) and 75° F (23° C).

Shipping: Product must be shipped in temperatures at or greater than 33° F (1° C). Temperature-controlled vehicles may be available.

Storage: Store product out of direct sunlight, and between temperatures of 50° F (10° C) and 75° F (23° C), for maximum shelf life.

Installation: Apply product when the ambient and surface temperatures are between 33° F (1° C) and 110° F (43° C). The product itself must be between 50° F (10° C) and 75° F (23° C) at the time of installation.

Manufacturing Facility Exceptions: This product is drop-shipped directly from, and at the discretion of, the manufacturer. Contact Duro-Last for availability.

K. Millennium PG-1 Pump Grade Adhesive (bag-in-box and cartridge) (for insulations, roof boards and fleece membranes)

Keep from freezing. If the product freezes, do not use.

Shipping: Product must be shipped in temperatures at or greater than 40° F (4° C). Temperature-controlled vehicles may be available.

Storage: Store product out of direct sunlight, and between temperatures of 45° F (7° C) and 95° F (35° C), for maximum shelf life. Prior to installation, store product at approximately 70° F (21° C) for a minimum of 48 hours.

Installation: Apply product when the ambient and surface temperatures are at or greater than 25° F (-3° C). The product itself must be approximately 70° F (21° C) at the time of installation.

Manufacturing Facility Exceptions: This product is drop-shipped directly from, and at the discretion of, the manufacturer. Contact Duro-Last for availability.

L. Millennium One Step Adhesive (cartridge) (for insulations and roof boards)

Keep from freezing. If the product freezes, do not use.

Shipping: Product must be shipped in temperatures at or greater than 33° F (1° C). Temperature-controlled vehicles may be available.

Storage: Store product out of direct sunlight, and between temperatures of 65° F (18° C) and 85° F (29° C), for maximum shelf life.

Installation: Apply product when the ambient and surface temperatures are at or below 100° F (37° C). The product itself must be between 65° F (18° C) and 85° F (29° C) at the time of installation.

Manufacturing Facility Exceptions: This product is drop-shipped directly from, and at the discretion of, the manufacturer. Contact Duro-Last for availability.

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ColdMark® Cold Temperature Indicator (CTI) for WB II Adhesive

At least one ColdMark CTI will accompany each WB II Adhesive shipment originating from Jackson, MS or Carrollton, TX during November through April. Use the pails with these CTI last to ensure that no products have been subjected to freezing temperatures.

The clear CTI bulb will become colored if exposed to freezing temperatures. If the CTI bulb has become colored, do not use the product. Immediately contact the facility that shipped the product to order new replacement product. If freezing temperatures continue, contact Duro-Last Engineering Services for alternatives.



Example of Clear Bulb



Example of Colored Bulb