

DEC-TECHNICAL BULLETIN



Bulletin No: TB021 Version: v.01

Effective Date: 2021-04-16

Subject: **COLD WEATHER APPLICATION OF DEC-TEC ADHESIVES**

Product Pre-Installation Installation Repair Maintenance Other
 External Internal Use Internal Use Only

Target Audience: All

Reason for Bulletin: To provide clarity on cold weather application of Dec-Tec adhesives

Details:

Dec-Tec adhesives should be applied above certain temperatures and conditions to avoid freezing and ultimately changing the physical characteristics affecting the performance of the product.

For information on recommended installation practices for the Dec-Tec product line, refer to **CM-001 Basic Installation Guide – Wood Substrate V.03**

General recommendation for adhesives

Dec-Tec recommends to refer to all product labels before application.

General rules of thumb to consider in cold weather, include;

- If it's cool and dry, ensure you do not spread adhesive below temperature limitation.
- If it's cool and humid, adhesive may not work. Wait for better conditions!
- If freezing temperatures are expected within 24 hours after application, do not apply any adhesive.
- Applying times are longer in cold weather.
- Viscosity of the adhesives will be higher during colder temperatures.

Water Based Adhesives – WBA 100



- Application temperature should be 50°F/ 10°C and rising.
- Apply when the dew point is below the ambient temperature and have a separation of more than 5°F/3°C to eliminate condensation forming on the surface of the adhesive.
- Apply WBA 100 when relative humidity is less than 90%
- Adhesives should be stored in a dry area at 73°F (23°C).
- Avoid applying WBA 100 if rain or any extreme weather conditions are expected.

Freeze warning:

- WBA 100 cannot be exposed to temperatures below freezing at any time before, during or after application (up to 8 hours). If it freezes after application, WBA 100 would need to be sanded off using a mechanical sander with 40-60 grit sandpaper before adhesive is reapplied.
- If the WBA 100 becomes frozen, it cannot be mixed back to a uniform state. If this happens, do not use the materials and dispose the materials according to your local and state requirements.

Solvent Based Adhesives – SBA 100R & SBA 200 VC



- Application temperature should be 34°F/ 1°C and rising.
- Apply when the dew point is below ambient temperature and have a separation of more than 10°F/6°C to eliminate condensation forming on the surface of the adhesive. Monitor the dew point, as there is a much higher probability, of condensation forming on the surface of the adhesive.
- Flash off points will be longer due to colder temperatures. Chance of bubbles forming are higher as it takes longer to off gas.
- Try and maintain an even coat, as this will lead to less pooling where there are more solvents which increases the probability of bubbles and poor adhesion.
- Adhesives should be stored in a dry area between -4°F (-20°C) and 86°F (30°C).
- Do not try to heat up the glue using a heat welder or other heat source.

Bubbles:

Dec-Tec's Solvent Based Adhesive (SBA 100R and SBA 200VC), sometimes referred to as contact adhesives dry by "flashing off" or the process of "Off-Gassing". Bubbling can occur when large wet pockets of SBA are trapped between the substrate and the membrane where the SBA is still trying to off-gas.

As the adhesive dries, most of the gas bubbles will dissipate. In most cases, bubbles are fixed by applying weight on it or applying an appropriate amount of heat which can be used to reactivate the adhesive to contend with bubbles.

For information on how to properly repair the bubbles, refer to **TB011 – Bubbles in Dec-Tec Membrane v.02**.

Note:

- To identify acceptable vs non-acceptable glue, refer to **TB013 – ACCEPTABLE VS NON-ACCEPTABLE DEC-TEC ADHESIVES**.

If you have any questions concerning this bulletin, please contact Dec-Tec, Technical Support at 1-866-461-3914.

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