

## Technical Bulletin #2025-06

To: All POLYGLASS Users

CC: POLYGLASS Sales & Technical Services

Re: **Guidelines for Cold Weather Application for Polyglass LRF CR Roofing Adhesives**

In our continued effort to support our customers, Polyglass provides the following guidelines for installing Polyglass LRF CR low-rise foam adhesive in cold weather conditions. As temperatures drop, it is essential that Polyglass LRF CR be properly stored, conditioned, and applied within the recommended temperature range to ensure consistent performance and optimal adhesion. The curing and tack times of two-component polyurethane adhesives are directly influenced by the temperature of the chemicals, substrate, and surrounding environment.

### Temperature Requirements

- For best results, both Part A and Part B components must be maintained between 70°F and 85°F (21°C to 29°C) before and during application.
  - If the adhesive temperature falls below 60°F (16°C), it may not dispense properly or may produce off-ratio foam.
- The minimum recommended ambient and substrate temperature for application is 40°F (4°C) and rising.

### Storage and Conditioning

- Store all adhesive kits in a dry area at 75°F–80°F (24°C–27°C) whenever possible.
- Do not store kits on rooftops or in unheated spaces overnight during colder months.
- It takes approximately three times longer to warm the chemicals than to cool them down.
- To maintain proper chemical temperature, use electric warming blankets or hot boxes prior to and during application.
- Allow 24–48 hours at a minimum of 70°F (21°C) for cold materials to reach acceptable temperature before use.

### Application Best Practices

- Always shake or roll both Part A and Part B cylinders for 1–2 minutes before connecting the spray hose assembly to re-mix chemicals.
- Keep cylinders upright inside their boxes with lids closed during use.
- Before starting application, purge air and old chemical from the gun and hoses for a few seconds before attaching a new ColorWise® mixing nozzle.
- Maintain a proper trigger pull (approximately ½" to ¾") during spray application.
- When pausing for more than 30 seconds, replace the used nozzle with a new one.
- After achieving proper gel or tack time, place insulation or cover boards immediately into the adhesive beads and walk into place to ensure contact.
- Avoid foot traffic on freshly bonded boards for at least 15–20 minutes to allow full adhesion.
- For warped or cupped boards, use temporary weighting on corners until set.

### ColorWise™ Temperature Warning Mixing Nozzles

Polyglass LRF CR adhesives are equipped with ColorWise™ “Snap-Tip” mixing nozzles designed to visually indicate improper chemical temperature.

- Clear nozzle = Proper temperature (70°F–85°F)
- Blue nozzle = Chemical is too cold (55°F–60°F or below) and adhesive should not be dispensed

This feature provides real-time feedback at the point of application, helping ensure the adhesive is within its optimal operating range and reducing the risk of off-ratio foam or poor adhesion.

### Key Reminders

- Cold temperature’s slow adhesive reaction and curing time. Warmer conditions will accelerate tack and set-up.
- Applying adhesive below the recommended temperature range may lead to off-ratio spray, reduced yield, or incomplete bonding.

For more detailed application or warranty inquiries, please contact the Polyglass Technical Services Department at 866-794-9659 or via email at [Technical@Polyglass.com](mailto:Technical@Polyglass.com).



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