

# COLD WEATHER APPLICATION GUIDELINES

## OVERVIEW

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Low temperatures can significantly affect resinous coating installation, curing, adhesion, and overall performance. Coatings applied below recommended substrate or ambient temperature risk extended cure times, blush formation, incomplete polymerization, and poor adhesion.

### **Critical Considerations**

- Substrate Temperature: Must be above manufacturer minimum.
- Air Temperature: Maintain stable ambient temperature; avoid cold drafts.
- Dew Point: Slab must be at least 5°F above dew point to prevent condensation.
- Humidity: High RH can cause amine blush on epoxies.

### **Installation Practices**

- Pre-condition materials to recommended temperature range.
- Pre-condition environment and slab to recommended temperature range.
- Use fast-set products or accelerators designed for cold conditions.
- Reduce film thickness to avoid extended cure time.
- Avoid applying coatings during nighttime or when temperatures are expected to drop.

### **Best Practices**

- Verify substrate and ambient conditions.
- Maintain temporary climate control if necessary.
- Document environmental readings before and during application.