

# RESINOUS COATING APPLICATION QUICK TIPS

Applying epoxy/urethane coating systems in high heat/humidity.

# NPI

National Polymers Inc.

**Higher temperatures = DECREASED pot life!**



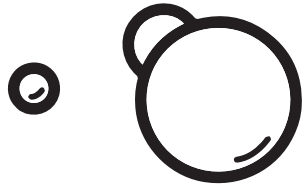
## MIX SMALLER BATCHES

Ensure mixing only what you can apply before curing begins.

Temperature increases cause cure times to speed up, leaving *less working time.*



## OUTGASSING may occur as temperature INCREASES!



When outgassing occurs, air bubbles can form in the epoxy coating. This phenomenon occurs when temperature increases; causing air and moisture vapor to be emitted from the concrete slab.

*If air bubbles form, sand down the coating and reapply BEFORE applying any subsequent coats.*



**HIGH HUMIDITY can lead to bonding issues.**



Increased moisture in the air can cause condensation on the concrete surface; causing issues during the bonding & curing process.

## How Does Humidity Effect Cure Times?



In high humidity, epoxies & urethanes may take longer to cure due to the increased moisture in the air. Be sure to consider that extra time may be required between coats when applying during high humidity.

**Review product data sheets** for recommendations on relative humidity and temperature application ranges.



## Blushing

Blushing can occur when polymerization takes place at high humidity. This develops as a surface oiliness, exudate, or whitish spots in the resinous coating. Blushing appears as a milky, hazy effect in clear resinous coatings and may cause lack of gloss in pigmented coatings.

*\*\*High humidity is not the only factor that contributes to blushing, although it does play a major role in the appearance of blush.*

