

Applying Polyurethane Coatings In Hot Weather

Problems that can occur in hot weather (above 25°C)

1. **Viscosity of coating decreasing as temperature increases can result in:**
 - a) **Percolation** or draining of coating into tongue and groove is increased and this may contribute more to edge bonding

2. **Solvents ‘flash off’ quicker** resulting in:
 - patchy gloss
 - loss of ‘wet edge’ and consequent roller edge or stop / start marks, especially with satin finishes

3. **Curing reaction is faster** with effects in the extreme of:
 - decreased flow, creating roller or brush marks
 - gelation in application buckets, especially with 2 packs
 - gloss variations
 - orange peel
 - film surface skins and results in bubbling

Trouble Shooting Guide For Hot Weather

PROBLEM	REASON	CAUSE	REMEDY
Bubbles in dry film	Drying too fast	<ul style="list-style-type: none"> • Film surface drying too quick • Film thickness high 	<ul style="list-style-type: none"> • Add Wet Edge Extender 3320 at 3% per litre • Reduce airflow in room
Roller marks in dry film	Drying too fast	<ul style="list-style-type: none"> • Loss of ‘wet edge’ • Feathering of edges not adequate • Over working of product 	<ul style="list-style-type: none"> • Add Wet Edge Extender 3320 at 3% per litre • More care with feathering in of wet edges. • Ensure roller heavy edge not facing wet film
Brush marks at room edges	Drying too fast	<ul style="list-style-type: none"> • As per above 	<ul style="list-style-type: none"> • Add Wet Edge Extender 3320 at 3% per litre • Don’t get too far ahead with edge brushing • Keep film thickness too a minimum • Feather in the edges
Gloss Variation	Uneven drying	<ul style="list-style-type: none"> • Temperature of floor or room uneven • Film thickness varying 	<ul style="list-style-type: none"> • Ensure no draughts or direct sunlight • Apply more even film

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