

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:

- **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

PROBLEM	REASON	CAUSE	REMEDY
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 to 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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