

Machine Washing Pyrolytic Low Emissivity Coatings and Washer Maintenance

In order to ensure cleaning of Cardinal's pyrolytic coatings, proper maintenance and procedures must be followed.

Daily Maintenance

- Wash water should be changed at least once per shift.
- Wash tank should be drained, vacuumed, and rinsed daily to avoid sludge build up.
- Inspect rolls in rinse and drying sections for contaminants and clean as needed.
- Wipe take off section rolls clean daily.
- Remove any debris from drain screens.

Weekly Maintenance

- Inspect sprocket and chain adjustment.
- Inspect and grease bearings as needed.
- Inspect rolls (especially top pinch rolls in rinse and drying sections) for damage and repair/replace.
- Inspect/clean air knives.
- Inspect pumps.
- Inspect drive belts.
- Inspect water lines for flow.
- Inspect spray tubes.
- Change blower filters.
- Inspect brushes - adjust or replace as needed.
- Inspect control panel, conduit, plugs, receptacles, and heating elements.

- Flush wash and rinse tanks (circulation of a strong detergent in the washer for several hours is desirable).
- Check all rubber and metal curtains for mineral build-up or contact with the top surface of the glass.

Monthly Maintenance

- Steam clean washer a minimum of once per month (pay special attention to areas that can hold water allowing it to stagnate or collect contaminants).
- Steam clean washer a minimum of once per month (pay special attention to areas that can hold water allowing it to stagnate or collect contaminants).
- Clean wash and rinse spray tubes.
- Clean air knife slots (it may be necessary to grind off mineral deposits).
- DO NOT use direct high-pressure spray on brushes as permanent deformation may result.

General Notes

- Wash water temperature should be 130°F to 140°F.
- To reduce scratch potential, a pre-rinse is helpful in removing debris prior to the glass entering the washer.
- Washers should be equipped with low-e brushes. Brush bristles should be 0.008" to 0.010" in diameter and crimped. Brushes should initially be adjusted so bristles are 1/32" below/above the glass surface. Check coating for signs of damage after any adjustment.
- Pinch rolls should make only slight contact with the glass.
- Always run coated side up.
- Use a good detergent (such as Shaklee Basic H, CRL Low-E, Detrex 79 A, or Billco 79A). Normally use less than 50% of the manufacturer's recommendation to minimize the chance of a remaining detergent film.

- Ensure an adequate flow of water to the brushes and rinse (1 GPM per foot of brushes if line speed is 10 FPM or less. More water is needed if line speed is increased or glass requires special cleaning).
- Continuously overflowing the wash and especially the rinse tanks into the overflow pipe is a good practice to help assure clean water.
- When running small lites in a large washer it is good to alternate where the glass is running in the washer to even out brush wear.
- Brushes should be replaced/trimmed when wear makes adjustment difficult, especially in the center.
- Never allow glass to stop in the washer especially under rotating brushes as marking can occur.
- De-ionized water used in the rinse section of your washer will ensure a clean, residue free glass surface. This helps insure good adhesion of insulating sealants to the coated surface.

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