

Requirements for Micro Surfacing Equipment – MRPA Guidelines

- ☐ All equipment used on the jobsite is in good working order with no leaks

Mixing Machine

Type: ☐ Continuous Loading ☐ Truck-Mounted Calibration Date: _____

- ☐ Positive-connection conveyor belt aggregate delivery system operational
- ☐ Interconnected positive displacement, water-jacketed gear pump functioning
- ☐ Continuous-flow, twin-shaft, multi-blade pugmill (minimum 50 inches long)
- ☐ Mineral filler feed drops on aggregate before pugmill discharge
- ☐ Asphalt emulsion introduced within first one-third of mixer length
- ☐ Rate indicators for each material readily accessible and positioned for determination
- ☐ All material rate indicators calibrated and tested before production
- ☐ Water pressure system and spray bar functioning (dampens pavement without free-flowing water)
- ☐ Opposite-side driving stations on front for longitudinal alignment
- ☐ Remote forward-speed control at rear mixing platform operational
- ☐ Documentation of calibration at various settings maintained on site
- ☐ Recalibration completed after changes in aggregate or emulsion sources

Material Delivery System

- ☐ Transport units ensure continuous operation during production
- ☐ Belt-type aggregate delivery system operational
- ☐ Emulsion storage tanks are adequate and functioning
- ☐ Water storage tanks are adequate and functioning
- ☐ Transports can proportionally mix aggregate delivered by each unit
- ☐ Aggregate delivery belt clean and operational
- ☐ Emulsion pump and lines in good condition, with no leaks
- ☐ Water system functioning with proper pressure
- ☐ Filler delivery system operational
- ☐ All material bins/tanks have adequate capacity for level indicators

Spreader Box

Type: ☐ Standard ☐ Rut Box ☐ Longitudinal Box

- ☐ Mechanical-type spreader box attached to mixer
- ☐ Paddles mounted on adjustable shafts to continually agitate mixture
- ☐ Front and rear flexible seals maintain direct contact with road
- ☐ Secondary strike-off attached to provide smooth surface texture
- ☐ Drag capable of producing uniform finish (replace if mixture builds up)
- ☐ Rut box (if applicable): Steel V-configuration screed design for 5-6ft spread width
- ☐ Rut box (if applicable): Secondary strike-off controls crown
- ☐ Longitudinal box (if applicable): Steel screed box for longitudinal application

Required Lighting & Safety:

- ☐ Power brooms equipped with approved flashing/rotating/oscillating amber light
- ☐ Truck mount spreaders equipped with approved amber light
- ☐ Continuous spreader units have one light on each side
- ☐ Traffic control equipment is in place and traffic safety plans are being implemented