

Standard Operation Procedure	SOP.050 – UltraStripe L224 with Reactive Beads – Line Markings [V1.0]
Description of Operation	To install line markings using UltraStripe L224 and Reactive Beads, applied using airless spray equipment with a Pressurised Bead System
Tools and Equipment Requirement	<ol style="list-style-type: none"> 1. UltraStripe L224 white [or colour to suit] 2. Swarco Reactive Glass Beads 3. Primer (if required): <ul style="list-style-type: none"> – New asphalt - ViaLine F210 or UniPrime L257 – Concrete - UniPrime X250 4. 50mm wide lines – LL5-315 Grey XHD Spray Tip 5. 75mm wide lines – LL5-417 Grey XHD Spray Tip 6. 100mm wide lines – LL5-421 Grey XHD Spray Tip 7. 150mm wide lines – LL5-525 Grey XHD Spray Tip 8. 200mm wide lines – LL5-529 Grey XHD Spray Tip 9. 50–100mm wide lines – 0.21 Bead Nozzle 10. 150–200mm wide lines – 0.23 bead Nozzle <p>NOTE – It is important to bear in mind that the tip sizes are a guide, based on a typical application temperature of 16°C air temperature. Temperature variations will cause changes in viscosity, which will in turn cause the material to become slightly thicker in cooler conditions, or thinner in warmer conditions. To compensate for this, use a larger tip size in cooler conditions and a smaller one in warmer conditions</p> <p>For example, 100mm lines, change to a LL5-423 tip if it is cool and you are struggling to get a full 100mm with or good opacity. [A larger aperture size allows more paint through]</p> <p>Or change to a LL5-419 tip if it is warmer and the paint is coming out too thick and/or fast</p> <ol style="list-style-type: none"> 11. Wire Broom 12. Blue Poly Yard Brush 13. Drill and Mixing Paddle 14. UltraClean X795 15. Cleaning brush 16. Measuring Instrument Kit
Preparation	<ol style="list-style-type: none"> 17. Use wire broom to remove any loose or flaking material 18. Clean lines using steam cleaner or pressure washer to remove all soiling 19. Allow to dry/use forced drying if necessary 20. Use yard brush to sweep area clean 21. Check site conditions to ensure they are suitable for application <ul style="list-style-type: none"> • Measure ground temperature [5°C & rising]

	<ul style="list-style-type: none"> • Measure air temperature – [minimum of 5°C and at least 3°C above dew point] • Measure relative humidity [less than 80%] • Measure substrate moisture content [less than 10%] <p>22. Prime with the relevant primer required [see SOP – Primer application]</p> <p>23. Once you are ready to apply lines, load spray machine with paint as outlined in training manual and fit spray tip</p> <p>24. Fill the Bead tank with beads and set up bead gun as outlined in training manual.</p> <p>25. Test spray application using a few trials on a piece of scrap paper or cardboard. Adjust pointer guide to suit, as required, to ensure accuracy. It is important to make sure the beads are being applied over the entire surface of the paint to ensure a full and consistent cure.</p>
Application	<p>26. If machine is fitted with laser guide system [2000 system] position target box at far end of line to be painted.</p> <p>27. Alternatively, use a chalkline to lay a guide line for the laser pointer or guide to follow</p> <p>28. Use a 'stop board' to run off at start of lines, to give sharp edges and ensure on correct line</p> <p>29. Use a methodical process to avoid the need to walk over fresh lines, wherever possible</p> <p>30. Once operation completed, remove tip guard & tip and immerse in cleaner in a small storage jar. Clean machine with UltraClean X795 in accordance with procedure in training manual</p>
Notes	<ul style="list-style-type: none"> • Please take great care to be aware of your surroundings and the presence of any customers or other personnel in the area. • Suitable traffic management should be employed to protect yourself, your equipment and to prevent any traffic over uncured paint. • Suitable PPE should always be worn. • Full procedures for machine set-up, spray pressures, colour changing and cleaning are all outlined in relevant sections of the training manual. • Please refer to the manual if in any doubt about these. • It is important that due attention is given to the prevailing temperatures & conditions in the immediate environment. Specific guidelines are given on Tech Data Sheets, as a blanket good practice there are 3 key criteria which need to be observed: <p>1. Surface temperature – minimum of 5°C – measured using digital thermometer</p> <p>2. Air temperature – minimum of 5°C and at least 3°C above dew point [this may be considerably more than 5°C] – measured using multifunction dew point thermometer</p> <p>3. Humidity – less than 80% - measured using multifunction dew point thermometer</p> <p>4. Substrate moisture content – less than 10% - measured using moisture meter</p>