Winter Maintenance Guidelines for Porous Asphalt





General Maintenance	• Plow after every storm. Special plow blades may be used to prevent scarring but are not necessary. Raised blade is not recommended • Up to ~75% net salt reductions for porous asphalt have been documented. ***USE SALT REDUCTION NUMBERS WITH CAUTION!!!*** • Excess salt application maybe needed during challenging storm events. Salt reductions typically occur between storm events with no black ice formation. • Salt reduction amounts are site specific and are affected by degree of shading and hours of operation. • Apply anti-icing treatments prior to storms. Anti-icing has the potential to provide the benefit of increased traffic safety at the lowest cost and with less environmental impact. • Apply deicing treatments during, and after storms as necessary to control compact snow and ice not removed by plowing. • Sand application should be limited since its use will increase the need for vacuuming. • Mixed precipitation and compact snow or ice is problematic for all paved surfaces, but is particularly problematic for porous surfaces. This is corrected by application of excess deicing chemicals. • Recommended posting of signs indicating difference of performance after sunrise and sunset.
During Event	• Apply standard amounts of deicing agents during storm events. • Amounts will be adjusted based on site specific requirements, hours of operation, and degree of shading. • Additional Deicing may be required during challenging storm events.
Between Storms	• Deicing is NOT required for black ice development. Meltwater readily drains through porous surfaces thereby preventing black ice. • Night time deicing may require additional maintenance activities. • Daytime deicing may be minimal once pavement is exposed to sunlight.
Additional Resources	• The UNH Stormwater Center: http://www.unh.edu/erg/cstev/ • Pennsylvania Asphalt Pavement Association (PAPA) Porous Asphalt Pavements Guide: http://www.pahotmix.org/PDF/porous1.pdf • National Asphalt Pavement Association (NAPA) Porous Asphalt Pavements for Stormwater Management Revised 11/2008, Information Series 131