

Provisions for Use of Liquid Anti-stripping Asphalt Additives on 2023 NS Department of Public Works Paving Projects

The Department may determine that a liquid anti-stripping additive is required if one of the following conditions occurs:

- the long term tensile strength ratio of the asphalt concrete as tested per AASHTO T 283 is less than 0.80;
- material that has been conditioned per AASHTO T 283 meets the 0.80 minimum requirement but a visual examination indicates there is evidence of stripping; or
- if based on past performance the aggregate source is known to be prone to stripping.

The use of anti-stripping additives shall comply with the requirements of Division 4 Section 4 of the Standard Specifications.

If required, and the Contractor elects to use an amine-based liquid anti-stripping additive:

- the Contractor shall use the lowest effective dosage rate of amine-based liquid anti-stripping additive;
- all pavers used to place asphalt concrete containing amine-based liquid anti-stripping additive shall be equipped with an engineered control ventilation system with a minimum controlled indoor capture efficiency of 80%;
- the Contractor is advised that special precautions and scheduling of work may be necessary to effectively and safely produce and place asphalt concrete;
- the Contractor is advised that certain weather conditions such as fog or humidity require special precautions and these conditions or rain may require a shut down of operations. If the NSDPW Project Engineer determines that weather conditions are not acceptable, asphalt concrete shall not be placed;
- the Contractor shall provide Information Sessions and Worker Training, including information on the use of protective clothing and respiratory protective equipment, site supervision and contingency system, and relocation or removal of sensitive workers;
- the Contractor shall advise workers of the proper procedures to be followed when working with asphalt cement or asphalt concrete containing amine-based liquid anti-stripping additive;
- the Contractor shall ensure that Carriers retained to haul the asphalt cement containing amine-based liquid anti-stripping additive and Truckers retained to haul hot or warm mix containing amine-based liquid anti-stripping additive have received training with respect to working with asphalt cement containing amine-based liquid anti-stripping additive;
- the Contractor shall provide upon the request of its employee, and at the Contractor's expense, Respiratory Protective Equipment equipped with organic vapour cartridges for any employee who feels they are, or may become, adversely affected (eye, nose, throat, lung irritation, nausea, etc.) by the vapours of asphalt cement containing amine-based liquid anti-stripping additive or by the odour of the amine-based liquid anti-stripping additive; and
- the Contractor shall relocate a worker adversely affected by the vapours of asphalt cement containing amine-based liquid anti-stripping additive or the odours of asphalt cement containing amine-based liquid anti-stripping additive, who cannot be adequately protected by wearing respiratory protective equipment, to work in an area where the worker is not affected.