

Walker Emulsions

Wax and Asphalt Emulsions

For over thirty-five years, our Burlington location has provided both wax and asphalt emulsions to a variety of industries and municipalities across Canada, the United States and Mexico. Our ongoing investment in research and development has resulted in the development of green, sustainable options for our customers.



What are our emulsions used for?

- Walker Emulsions makes emulsions from asphalt cement and water for use in road construction and re-surfacing, and wax emulsions for various industrial uses.

Asphalt emulsion uses

- Asphalt emulsion is used for surface coating roads as well as providing the binder for cold mix asphalt products.

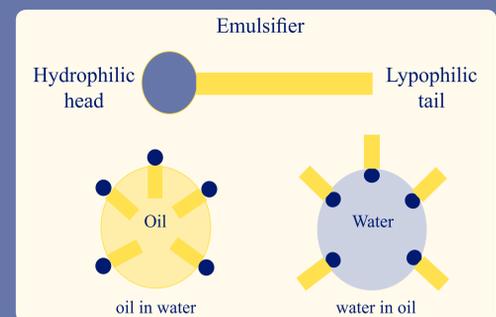
Wax emulsion applications

- Wax emulsions have a wide variety of industrial uses. They are used for moisture resistance, water repelling, dust control, lubrication, edge sealing.
- Wax emulsions are used in the manufacturing of
 - ✓ wood and forest products
 - ✓ gypsum board
 - ✓ insulation
 - ✓ paperboard
 - ✓ food packaging



What is an emulsion?

- An emulsion is a stable mixture of two liquids that do not normally mix well, such as oil and water.
- An “emulsifier” is used to keep the two liquids together.
- Caesar salad dressing and mayonnaise are both examples of emulsions we all know.
- In both cases the egg acts as the emulsifier to keep the vinegar and oil mixed together.
- Oil dislikes water. Materials that dislike water or do not mix with water are known as “hydrophobic.”
- Vinegar mixes well with water. Materials that like water are known as “hydrophilic.”
- Materials that like fats are known as “lypophilic.”
- An emulsifier works because it has both hydrophobic and hydrophilic properties.
- The egg in a ceasar salad dressing acts to bring together the hydrophobic oil with the hydrophilic vinegar.



walker
industries

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