



Windswept Organix' Nature's Seal:
The most effective, environmentally-friendly soil stabilization product available on the market.



NATURE'S SEAL



Windswept's Nature's Seal provides dust control and stable surfaces for unpaved areas at construction sites and near industrial plants, mining areas, landfill sites, airports, and quarries.



Ideal For:

- Fugitive Dust Control
- Soil Stabilization
- Stockpile Management
- Erosion Control
- Hydroseeding
- Temporary Site Stabilization
- Final Site Stabilization And Reclamation
- Mine Tailings Sealing
- Non-Paved Haul Roads & Transportation Yards
- Erosion Prevention On Steep Slopes And Embankments
- Sealing Of Exposed Construction Sites
- Retention Basins
- Roadway Shoulders



Nature's Seal:

- Environmentally friendly
- Ecologically safe
- 100% Organic
- Non-corrosive
- Non-flammable
- Will not leach
- Excellent binding strength
- Not water soluble once cured
- Available in various customized formulations
- Meets and exceeds environmental standards



FREQUENTLY ASKED QUESTIONS



NATURE'S SEAL
A WINDSWEPT ORGANIX PRODUCT

1) HOW IS NATURE'S SEAL MADE?

It starts with pine trees. When Nature's Seal is processed in a distillation column, several products are extracted from both the sugar and gum portions of the process. The sugars, are drawn off first. The gums are then drawn off. The remaining material at the bottom of the column is classed as tall oil pitch.

2) WHAT IS TALL OIL?

Tall oil is a by-product of the wood pulp industry and is usually recovered from Pinewood in the sulfate or Kraft paper process. A typical composition of tall oil includes 50-60% fatty acids (e.g. oleic, linoleic, etc.), 34-40% rosin acids, and 5-10% non-fatty acids, such as long chain alcohols and sterols.

3) IS TALL OIL PITCH PART OF THE LIGNOSULPHONATE FAMILY OF PRODUCTS?

NO. Lignosulfonates are produced and extracted from the sugar side of the distillation process and they are water-soluble. Tall oil pitch is produced and extracted from the post gum side of the process. Tall oil pitch is not water-soluble once applied and cured.

4) HOW IS THE ELECTRICAL CHARGE OF THE EMULSION CHANGED AND CONTROLLED?

The soap or water phase chemistry used in the production of the emulsions will alter the charge characteristics generating a positive, negative or neutral charge. The majority of the sites treated are negatively charged. Specialty applications in the mineral processing industry may require alterations to the charge.

5) HOW ARE EMULSIONS MADE?

Emulsions are a blend of materials such as water-surfactant based solutions and a base product, tall oil pitch. Tall oil pitch in its raw state is extremely viscous at ambient temperature. The tall oil pitch is heated and then mechanically blended with other products generating a chemically stable liquid environment.

6) DOES NATURE'S SEAL HARM THE ENVIRONMENT?

There are no negative environmental impacts. Extensive testing has been completed based on the most recent Ontario Ministry of Environment (M.O.E) Guidelines. Full details of the lab testing reports are available.

7) HOW LONG DOES IT LAST?

Depending on the application chemistry, how the product is applied and the number of coats, **typical undisturbed stockpile and mine tailing fields can last up to four years.** We can adjust the emulsion chemistry and physical characteristics to meet a variety of applications. Landfills and construction sites can be sealed daily, weekly or as required.

8) ARE THERE OTHER TYPES OF EMULSION?

Yes. Products can be custom manufactured to meet a variety of unique performance requirements.

9) IS TECHNICAL FIELD SUPPORT AVAILABLE?

Yes. The Technical Support team is well trained to offer a wide range of field support:



Nature's Seal is from a family of emulsions derived from naturally occurring resins and can be customized for applications from dust control to agglomeration.

These emulsions are non-hazardous, environmentally friendly alternatives to acrylic co-polymers, chlorides, lignosulfonates, oils, and asphalt emulsion.



Windswept Organix
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