

<b>Applicant name:</b>	<b>Application date:</b>
<b>Business name:</b>	<b>Product name:</b>

For more information on the content of this form as well as definitions and instructions, please refer to Section 2.3 of TAC's *Guide to Evaluating Soil and Material Stabilization Products*.

**Part A – Category of stabilization** (select one; complete an additional form for each additional category)

**Mechanical**

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Compaction<br><input type="checkbox"/> Blending<br><input type="checkbox"/> Geosynthetics<br><input type="checkbox"/> Geogrid<br><input type="checkbox"/> Geopile<br><input type="checkbox"/> Geocell | <input type="checkbox"/> Aggregate piers<br><input type="checkbox"/> Rigid inclusions<br><input type="checkbox"/> Semi rigid inclusions<br><input type="checkbox"/> Shallow mixing<br><input type="checkbox"/> Deep soil mixing<br><input type="checkbox"/> Controlled modulus columns | Grouting – compaction, jet, chemical<br>Other: (please specify) |
|--|--|---|

**Cementitious**

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Cement (GU, GUL, blended cement)<br><input type="checkbox"/> Lime and quick lime<br><input type="checkbox"/> Fly ash | <input type="checkbox"/> Cement blended with supplemental cementitious materials (SCM)<br><input type="checkbox"/> Blast furnace slag | <input type="checkbox"/> Cement kiln dust<br><input type="checkbox"/> Other: (please specify) |
|---|---|---|

**Asphalt**

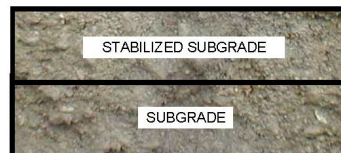
- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Asphalt emulsion<br><input type="checkbox"/> Foamed asphalt | <input type="checkbox"/> Cutback or liquid asphalt stabilization | <input type="checkbox"/> Other: (please specify) |
|--|--|--|

**Other Chemical Stabilization**

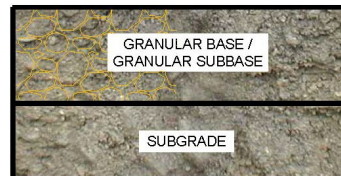
- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Chlorides<br><input type="checkbox"/> Organic non-petroleum / natural polymers<br><input type="checkbox"/> Petroleum resins | <input type="checkbox"/> Synthetic polymer emulsions<br><input type="checkbox"/> Sulfonated oils<br><input type="checkbox"/> Synthetic oils<br><input type="checkbox"/> Enzymes | <input type="checkbox"/> Nanotechnologies<br><input type="checkbox"/> Other: (please specify) |
|--|---|---|

**Part B – Layer(s) to be stabilized**

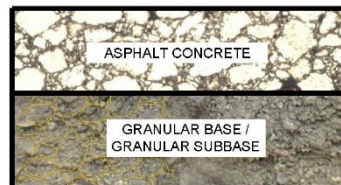
- Standard subgrade soils
- Low-quality subgrades (materials that would otherwise be subexcavated)
  
- Imported new aggregate base/subbase
- Existing aggregate base/subbase
- Pulverized/blended base and subgrade
  
- Imported new RAP Material
- Pulverized/Milled RAP Material
- Pulverized RAP/granular material
- Imported new RAP/granular material



Min. depth (mm)	Max. depth (mm)
<input style="width: 100%; height: 30px;" type="text"/>	<input style="width: 100%; height: 30px;" type="text"/>



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Min. depth (mm)	Max. depth (mm)
<input style="width: 100%; height: 30px;" type="text"/>	<input style="width: 100%; height: 30px;" type="text"/>



**Is the stabilized material able to sustain public traffic?**

- Yes – for a short term during construction, but the material needs a permanent surfacing
- Yes – after \_\_\_\_\_ days of curing, no permanent surface required
- Yes – immediately, with no curing required
- No – the stabilized material should be protected from traffic until it can be permanently surfaced

**Additional comments on the layer(s) that can be stabilized:**

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**Part C – Stabilized material properties and use**

**What types of benefit(s) does your product provide?** *(select all that apply; provide references to substantiate each)*

- |   |  |
|---|--|
| <input type="checkbox"/> Lower moisture content (dry out area)          | <input type="checkbox"/> Binds gap graded material together                      |
| <input type="checkbox"/> Decreased plasticity index                     | <input type="checkbox"/> Decrease in granular layer thickness required in design |
| <input type="checkbox"/> Improved subgrade strength                     | <input type="checkbox"/> Improved granular layer strength                        |
| <input type="checkbox"/> Improved resistance to erosion and/or leaching | <input type="checkbox"/> Improved strength of asphalt/surface layer              |
| <input type="checkbox"/> Long-term durability                           | <input type="checkbox"/> Other: (please specify)                                 |

**With which soil/material condition(s) is the product suitable for use?** *(select all that apply)*

- |   |   |                           |
|---|---|---------------------------|
| <input type="checkbox"/> High sulphate content            | <input type="checkbox"/> Low-strength fine-grained soil | Swelling/heaving material |
| <input type="checkbox"/> High moisture content            | <input type="checkbox"/> High organic matter content    | Permafrost                |
| <input type="checkbox"/> High plasticity index            | <input type="checkbox"/> Peat                           | Liquefiable soils         |
| <input type="checkbox"/> Soil gradation issues            | <input type="checkbox"/> Frost-susceptible material     | Other: (please specify)   |
| <input type="checkbox"/> Low-strength coarse-grained soil | <input type="checkbox"/> Differential settlement        |                           |

**Please identify the climatic condition(s) for which the product is suitable:** \_\_\_\_\_

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**Please identify the time of year the stabilization can be completed:** \_\_\_\_\_

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**The stabilized material is suitable for the following traffic levels:** *(select all that apply)*

- < 0.3 million ESALs
- 0.3 to 3 million ESALs
- 3 to 10 million ESALs
- 10 to 30 million ESALs
- Unrestricted traffic
- Heavy duty pavements (e.g. airports, ports, intermodal yards, container facilities)



The product has the following known limitations for use: (attach references for any projects that did not work well and the reasons for performance problems, in order to prevent failure of the product to perform)

- Climate/environment
Type of soil
Long-term performance
Other: (please specify)
No known limitations for the product

Environmental risks and benefits:

- Detailed information regarding environmental risks of the product is attached to this application
If no information regarding environmental risks is attached to this application, then a signed declaration stating that there are no known environmental risks is attached to this application
Detailed information is attached to this application regarding environmental benefits to using this product

Health and safety information: (identify any known health and safety issues with the product)

- Carcinogen
Signed declaration indicating no carcinogenic products
Material Safety Data Sheet (MSDS) is attached to this application
PM10 and PM2.5
Other: (please specify)
No known health and safety issues

Part D – Stabilized material performance information

Design life

- The design life of the stabilized material is \_\_\_\_\_ years
The stabilized material has the same life span as standard materials
↳ If not, state the difference (in years): More \_\_\_\_\_ or less \_\_\_\_\_

Describe required maintenance for the stabilized material, and compare it to standard pavement materials:

Other applications and approvals:

- An application involving this form has been completed in another jurisdiction (name): \_\_\_\_\_
An approval involving this form has been given in another jurisdiction (name): \_\_\_\_\_
Product is otherwise approved for in use in another jurisdiction (name a comparable one): \_\_\_\_\_
↳ Duration of use in that jurisdiction (years): \_\_\_\_\_

Research that has been completed on the product: (select all that apply)

- In-house research
University research
Agency research
Third-party research
Published research
Copies of research are attached

Project examples and references (direct experience): (select all that apply)

- A list of projects the product has been used on is attached, including contact names in government or private business that can verify claims
Reference projects are based in Canada
Reference projects have similar climatic conditions to the area where approval is sought
Test section information is attached (if available)
Long-term performance data is available for my product (attach if available)



**Part E – Commercial considerations**

**Proprietary product:**

- Yes, the product is proprietary  
↳ If there is a market equivalent, please identify it for comparison purposes: \_\_\_\_\_
- No, the product is not proprietary

**Describe how the stabilization product is supplied to the project (e.g. container, packaging):**

\_\_\_\_\_

**Describe how the stabilization product is incorporated into the project (i.e. equipment and techniques):**

\_\_\_\_\_

**Availability:** *(select all that apply)*

- Stabilization product is available for purchase locally  
↳ Address of nearest supplier: \_\_\_\_\_
- Equipment required for production (plant, material surface distribution, in-situ distribution) is available locally  
↳ Address of nearest producer: \_\_\_\_\_
- Specialized labour is needed for this process and is locally available
- If the product, equipment and/or labour are not available locally, please advise on the current mobilization distance (km) required to complete a trial:  
↳ Product: \_\_\_\_\_ Equipment: \_\_\_\_\_ Labour: \_\_\_\_\_

**Cost information has been provided:** *(select all that apply)*

- For the product
- For production and placement
- For the material life-cycle

**Part F – Other considerations**