



Driven by Innovation - Partners in Performance

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Product Questionnaire

Company Name: _____

Contact Name: _____

Phone Number: _____

Email Address: _____

Mailing Address: _____

Delivery Address:

Street Address: _____

City: _____

State/Province: _____

Postal/Zip Code: _____

Country: _____

Project Name: _____

Proposed Application Date: _____

1. **The expectation of this project:** *Indicate what the end goal/expectation for this project is.*

- Dust Control Soil Stabilization

2. **Project Area and Products:** *Provide the dimensions of the project surface area and indicate which solutions will be used.*

Project Area	Length	Width	Which solutions will you be using?		
Area A			<input type="checkbox"/> DustStop	<input type="checkbox"/> EarthZyme	<input type="checkbox"/> Both
Area B			<input type="checkbox"/> DustStop	<input type="checkbox"/> EarthZyme	<input type="checkbox"/> Both
Area C			<input type="checkbox"/> DustStop	<input type="checkbox"/> EarthZyme	<input type="checkbox"/> Both
Area D			<input type="checkbox"/> DustStop	<input type="checkbox"/> EarthZyme	<input type="checkbox"/> Both

3. **Project Environment:** *Fill out the below table regarding your site's seasons and temperatures.*

Season	Duration (months)	Low Temperature	High Temperature	Average Temperature
Spring				
Summer				
Autumn				
Winter				

4. **Fugitive Dust:** Does your site has fugitive dust.
(Definition of fugitive dust: Dust resulting from wind, vehicle movement or other activities.)

Yes No Other _____

5. **Material Type:** Please choose the one option below that best describes your project site.

<input type="checkbox"/> Sandy	<ul style="list-style-type: none"> • Granular material • Finer than gravel and coarser than silt • Particles range in diameter between 0.0625mm and 2mm
<input type="checkbox"/> Well Compacted Fines	<ul style="list-style-type: none"> • High clay/silt content • Cohesive soils (clay/silt) that are dense and tightly bound together
<input type="checkbox"/> Light Gravel Content	<ul style="list-style-type: none"> • Fine-sized/dirty gravel (more fines) • 4 to 8mm particulate gravel
<input type="checkbox"/> Medium Gravel Content	<ul style="list-style-type: none"> • Medium-sized/less dirty (less fines) • 8 to 16mm particulate gravel
<input type="checkbox"/> High Gravel Content	<ul style="list-style-type: none"> • Coarse gravel (little to no fines – difficult to compact) • 16 to 32mm particulate gravel
<input type="checkbox"/> Other (Please specify: slag, limestone, etc.)	

6. **Material Properties:** Is the material on the project site hydrophobic.

Yes No

7. **Traffic Frequency:** Choose the one below that best describes your project site.

	Vehicles per hour	Vehicles per 8 hours	Vehicles per 12 hours	Vehicles per 24 hours
<input type="checkbox"/> Low	Up to 10	Up to 80	Up to 120	Up to 240
<input type="checkbox"/> Medium	10 – 25	80 – 200	200 – 300	240 – 600
<input type="checkbox"/> High	Over 25	Over 200	Over 300	Over 600
<input type="checkbox"/> Constant	<ul style="list-style-type: none"> • Exceeds 25 vehicles/hr and has steady passage of vehicles at stable intervals over extended periods of time. 			
<input type="checkbox"/> No Traffic i.e. - Tailings Pile	<ul style="list-style-type: none"> • Any static pile of material (including storage piles) that is not exposed to vehicle or foot traffic. 			

8. **Average Traffic Speed:** *This represents the speed at which most vehicles will travel on the road.*

- 50 kph or less (30 mph or less)
- 50 – 70 kph (30 – 45 mph)
- Over 75 kph (45 mph)
- No Traffic i.e. - Tailings Pile

9. **Traffic Type:** *Choose the one below that best describes your project site.*

	Vehicle Weight (tons)	Vehicle Weight (kg)	Vehicle Weight (lbs)
<input type="checkbox"/> Light	Less than 22	Less than 22,000	Less than 48,500
<input type="checkbox"/> Medium	22 – 100	22,000 – 100,000	48,500 – 220,462
<input type="checkbox"/> Heavy	More than 100	More than 100,000	More than 220,462
<input type="checkbox"/> No Traffic	Any static area that is not exposed to vehicle or foot traffic. i.e. – tailings pile		

10. **Construction Equipment Availability:** *Fill out the below tables regarding equipment availability.*

	How Many	What Capacity (L)	Spray Boom Type (If known)
Water Truck(s)			

	How Many	What Type
Compactor(s)		
Reclaimer(s)/Pulvimixer(s)		
Grader(s)		

11. Application Type: Choose which option listed below best describes your site(s).
If multiple, select all that apply.

<input type="checkbox"/> Mine Haul	<ul style="list-style-type: none"> • A crude road built to facilitate the movement of people, equipment, and/or materials along the route of a job. • A road built to carry heavily loaded trucks (60-450 ton) at a good speed; the grade is limited and usually kept to less than 17% of climb.
<input type="checkbox"/> Access Road	<ul style="list-style-type: none"> • A road providing a means of entry into a region or approach to another road, site or project; usually exposed to heavy traffic (not as significant as a haul road). • A road that provides access to a specific destination, as to a main highway or to a property that lies within another property.
<input type="checkbox"/> Secondary Road	<ul style="list-style-type: none"> • A road supplementing a main road, usually wide enough and suitable for two-way, all-weather traffic at moderate or slow speeds (lighter vehicles than an access road).
<input type="checkbox"/> Parking Lot	<ul style="list-style-type: none"> • A cleared unpaved area that is intended for parking vehicles, these surfaces can be exposed to additional shear forces not found on other road types due to static shear (static wheel forces when steering while stopped).
<input type="checkbox"/> Erosion Control	<ul style="list-style-type: none"> • The practice of preventing or controlling wind or water erosion in agriculture, land development, coastal areas, river banks and construction.
<input type="checkbox"/> Non-road	<ul style="list-style-type: none"> • Any static pile of material that is not exposed to vehicle or foot traffic. • Also includes storage piles, rail car material, etc.

*Please submit any pictures and additional notes you may have, that could give us a better understanding of your project site(s) along with this questionnaire.

ANSWER QUESTION 11 ONLY IF YOU ARE USING DUST STOP IN YOUR PROJECT

12. Current Dust Control Methods:

Type (water, chlorides, etc.)	
Application Frequency <i>e.g. – 1x/month @ 2L/m²</i>	

ANSWER QUESTIONS 12 & 13 ONLY IF YOU ARE USING EARTHZYME IN YOUR PROJECT

13. Soil Classification:

EarthZyme works with the clay fraction of the soil to stabilize and strengthen the compacted soil, to ensure optimum performance it is important that the soil contain a minimum clay content.

The below three soil tests are required to determine the treatability of a soil. Please provide the results of these tests with the completed questionnaire and check the boxes below to indicate that you have done so.

- Particle Size Analysis (ASTM D422 – 63 (2007)) – **Sieve Analysis** (including Hydrometer)
- Compaction Characteristics (ASTM D698 – 12) – **Proctor Test**
- Liquid Limit, Plastic Limit and Plasticity Index (ASTM D4318 – 10) – **Atterberg Test**

14. Road Construction: *Fill out the below table regarding your site’s road construction if possible.*

Sub-Base	Material:		Depth (inches):	
Road Base	Material:		Depth (inches):	
Drainage	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Existing CBR*				

**Definition of CBR: A simple strength test that compares the bearing capacity of a material with that of a well graded crushed stone.*