

## ENSOTECH-GLOBAL

### Ensotech – Technology, System and Economic Leverage

#### Who is Ensotech?

Ensotech-Global is an innovation-driven infrastructure technology company that has developed a novel, fully cold-applied asphalt system which structurally replaces the energy-intensive hot-mix process in road construction.

Unlike incremental improvements of conventional asphalt technologies, this represents a fundamental process innovation. The system eliminates thermal production entirely and integrates CO<sub>2</sub>-binding components directly into the material matrix. This creates measurable environmental impact while generating significant economic value.

Ensotech does not position itself as a traditional construction material supplier, but as an international system provider operating under a scalable platform model. Through regional subsidiaries and hub structures across different countries and continents, the technology is implemented in a standardized, quality-controlled and globally scalable manner.

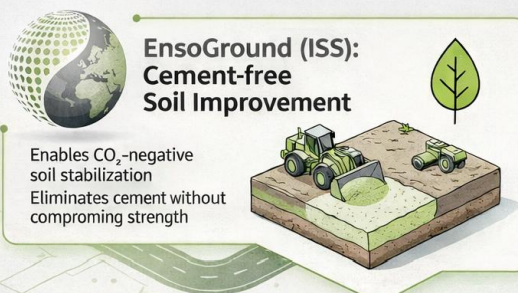
1

**TerraMix**




### Ensotech-Global: The Future of Sustainable Road Construction

Illustrating the advantages of EnsoGround and TerraMix as sustainable, CO<sub>2</sub>-negative and cold-applied system solutions



**EnsoGround (ISS):  
Cement-free  
Soil Improvement**




Enables CO<sub>2</sub>-negative soil stabilization  
Eliminates cement without compromising strength









**TerraMix:  
High-Performance  
Cold Asphalt**

A cold-applied, next-generation paving system, replacing conventional hot-asphalt solutions.

#### Key Advantages of the Technology

 <p><b>CO<sub>2</sub>-Negative Carbon Footprint</b></p> <p>By integrating biochar, material not only becomes reusable, it also removes carbon from atmosphere.</p>	 <p><b>Maximum Reusability</b></p> <p>Up to <b>100%</b> recycled content. Fully reusable materials (incl. milled asphalt &amp; concrete).</p>	 <p><b>Instant Traffic Reopening</b></p> <p>Immediate structural strength after compaction means reduced downtime and stable productivity.</p>
---	--	---

Ensotech-Global System	Conventional Technique
 Cold-applied processing temperature (No heating required)	 Hot-asphalt / Thermal processes
 Emissions up to 100x lower (No fumes / PAH)	 Heat pressure and aerosols
 Up to 100% recycled content	 High demand for virgin raw materials

Calculation results based on an average road design and conservative assumptions.

## What is the Ensotech System Solution?

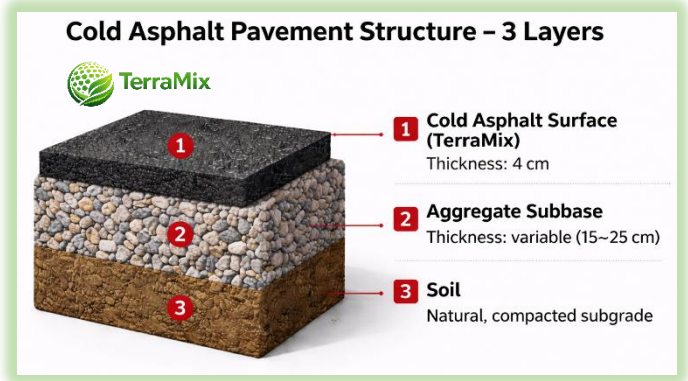
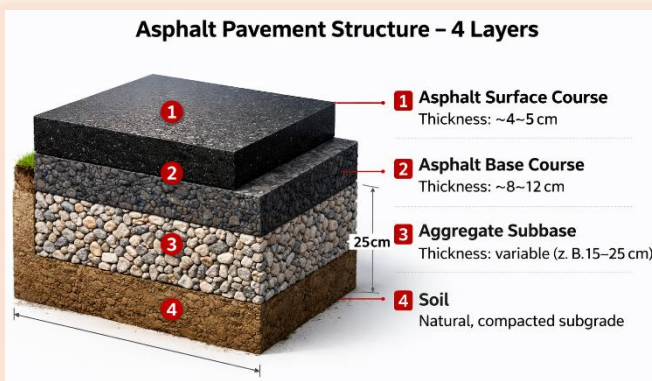
The internationally scalable Ensotech system solution is based on a high-performance cold asphalt technology that fully replaces the energy-intensive hot-mix manufacturing process while integrating CO<sub>2</sub>-binding components — particularly biochar — directly into the material structure.



The material performance enables reduced layer thicknesses while maintaining or improving structural performance. The structural capacity of the Ensotech system fully replaces the traditionally required base layer, which becomes technically unnecessary within the system design.

2

This innovative system approach fundamentally transforms conventional infrastructure construction and leads to immediate and **significant reductions in total project costs.**



- Asphalt Surface Course: 5 cm
- Asphalt Base Course: 10 cm
- Aggregate Subbase: 25 cm
- Soil

15 cm  
4 layer

- Asphalt: TerraMix 4 cm
- Asphalt Base Course: 0 cm
- Aggregate Subbase: 25 cm
- Soil

4 cm  
3 layer

These savings result from reduced material consumption, lower machine hours, shorter construction times and decreased labor requirements.



To ensure reproducible system performance under varying local conditions, Ensotech-Global operates a structured accreditation model covering raw materials, mixing technology and installation partners.

## What are the Advantages?

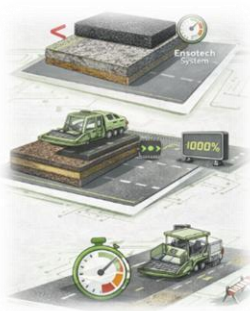
### Economic Advantages



- Significant material savings due to reduced layer thickness
- Elimination of energy-intensive hot-mix production
- No temperature-controlled transport logistics required
- Reduced construction time leading to lower overall project costs

3

### Technical Advantages



- Significantly thinner structural layers with comparable or improved performance
- High structural load-bearing capacity
- Excellent low-temperature performance
- Reproducible system performance through defined parameters

### Environmental Advantages



- Elimination of the energy-intensive thermal production process
- Permanent CO<sub>2</sub> binding through integrated biochar
- Reduced on-site emissions
- Reduced heavy truck traffic burden, because of less demand

### Structural Advantages



- Reduced dependency on stationary mixing plants
- Decentralized and mobile production capability
- Lower infrastructure requirements for market entry



4

Contact

**Tobias Leutert - Managing Partner**  
Ensotech-Global

*System Solutions & Application Development*

*Email: [info@ensotech-global.com](mailto:info@ensotech-global.com)*

**Randy Dabu – General Manager**  
Ensotech-Asia

*TEL. +63 917 506 1118*

*Email: [Asia@ensotech-global.com](mailto:Asia@ensotech-global.com)*