

PRESS RELEASE

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Epion & Aizawa form strategic partnership to conquer the Japanese market with self-healing asphalt

Tokyo, Japan, July 21 2018 – Epion Asphalt & Aizawa Concrete Corp. announce the formation of Epion Japan.

Epion has partnered up with Aizawa to form Epion Japan, expanding its presence to the region. The new partnership is a strong strategic fit, leveraging Epion's technological know-how and expertise and Aizawa's experience, network and drive for innovation.

Epion Japan will offer groundbreaking alternatives to conventional pavement maintenance for more durable city streets, express-, and runways. With Epion's innovative technologies, asphalt disintegration can be reversed long before pavement functionality and driver safety are compromised.

Induction-healing

Induction-healing technology uses induction energy to repair micro-cracks in (modified) asphalt pavements, extending pavement service-life by 50-100%.

Rejuvenation capsules

Rejuvenation capsules are embedded in the asphalt mixtures of new pavements to revert bitumen aging. Especially when applied in tandem with induction-healing, rejuvenation capsules greatly extend pavement service-life.

Both self-healing asphalt technologies prolong pavement service-life considerably, which (1) reduces expenditure, (2) promotes safety & (3) spares the environment.

The Induction-Aid repair method

Induction-Aid (I-Aid) utilizes the same induction-heating technology employed with induction-healing to replace defective pavement segments with prefabricated asphalt patches. Because I-Aid requires minimal on-site maintenance activity, it is particularly suitable for crowded or hard-to-reach areas. The procedure produces little debris

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and is considerably less disruptive to traffic and the public.

A durable partnership

- Epion Asphalt will supply specialized equipment and transfer its technological know-how to Epion Japan.
- Epion Japan will utilize Aizawa's understanding of the local market, clientele, existing business infrastructure and personnel to further the implementation of self-healing technologies in Japan.

'We expect the new partnership to spark transformative changes in the Japanese road construction industry, resulting in more durable, sustainable and cost-effective pavement construction practices on the islands', Martin Megalla, managing partner of Epion Asphalt reported.

Epion Japan made its first appearance at a three-day event in the Tokyo Big Sight International Exhibition Center, where Professor Schlangen gave a live demonstration of Epion's self-healing asphalt technology.

Strike while the iron is hot!

Two global trends set the perfect stage for the wide-scale adoption of self-healing asphalt across the world. First, mounting concerns over the environment are increasingly forcing the public sector to look for sustainable solutions. Due to the extension of service-life they can achieve, self-healing technologies can significantly reduce the road construction industry's environmental impact. Solely applying induction-healing, for example, already reduces carbon emissions by an estimated 40%.

Global investment rates in infrastructure persistently lag behind GDP growth, resulting in what is called a 'global infrastructure gap'. Self-healing technology can contribute to bridging this gap:

1. Our products provide superb long-term investment opportunities. While applying self-healing technology raises initial construction costs, the added expenditure is more than compensated for over the course of the pavement's prolonged service-life.
2. Governments often fail to mobilize the necessary funds to carry out proper preventative maintenance – even in developed economies with aging infrastructure networks. In the long term, such negligence is incredibly costly; restoring a defective road to an acceptable condition is up to 20 times more expensive than carrying out preventive maintenance over its life cycle (Eurobitumen2014, p. 16). The application of self-healing technologies effectively removes this problem, as it commits pavement owners to an optimal preventive plan.

About Epion Asphalt

Epion Asphalt takes its cue from Professor dr. ir. Erik Schlangen's foundational research at the Delft University of Technology in the Netherlands. Epion's core mission is to employ its co-founder's

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technologies in order to build the most durable pavement, minimize life-cycle costs and reduce the social and environmental harm caused by the global paving industry.

In pursuit of these aims, Epion offers franchises for the production and sale of its maintenance solutions. Epion is a conversion franchise-network, which means only well-established construction firms are eligible to join. An Epion franchise entitles its owner to the continued use of our self-healing pavement maintenance solutions, name & trademarks, unique expertise, advice and support. Franchisees are awarded designated business territories.

About Aizawa Concrete Corp.

Aizawa Concrete Corporation is a family business specialized in building materials, based in Hokkaido, which operates all over Japan. The company's core business is the manufacture and sale of cements, ready-mixed concretes, pre-stressed concretes, concrete piles and other housing materials. Under the direction of C.E.O. Yoshihiro Aizawa , the company became a leading innovator in construction, always on the look-out for promising innovations to extend its business operations. In addition to self-healing asphalt, the company also makes use of concrete 3D-printing and offers self-healing concrete in cooperation with Green Basilisk - another TU Delft spin-off company.

This press release can also be found at our website: www.epionasphalt.com