



Photo: Concrete Waste Upcycling Plant in Rotterdam (everox)

## EVEROX CIRCULAR CONCRETE

# Everox presented its circular concrete technology at WCA Annual Conference

Martin Paterson, Chief Commercial Officer of the Dutch company everox, gave an outstanding presentation at the World Cement Association (WCA) Annual Conference in Bangkok in April about the “The next generation of building materials”. everox patented a process, which separates concrete waste completely into its initial ingredients: Gravel to Recycled Coarse Aggregates, Sand to Recycled Fine Aggregates, Quartz to Fine Inert Filler, and Cement paste into Activated Cement Paste. Due to its highly cementitious properties, the Activated Cement Paste and can be used as a low-carbon SCM in newly produced cement or concrete. A flagship plant is under execution in Rotterdam, The Netherlands. The facility (photo) is scheduled to be operational by 2027. The EU alone faces about 180 million tons of concrete waste annually.

The flagship plant in Rotterdam is outlined for 100.000 tons of concrete waste per year. The processed ACP will have a reactivity similar to fly ash and a carbon footprint of only 11 kg/t. When used as SCM in a cement blend, the material can be certified by EN 197-6. Other certifications for direct use in concrete applications are in progress.

After founding its first Joint Venture (JV) with Dura Vermeer in Rotterdam, the scale-up is in discussion for 7 more joint ventures worldwide. The business model will be converted into a franchising strategy to accelerate the global expansion and roll-out of the technology with higher brand recognition, after proof of concept through the Joint Ventures.

**Mr. Martin Paterson**, Chief Commercial Officer, everox said: “Since 2022, everox has successfully processed several 1.000 t of waste concrete at its pilot plant in Hoorn, demonstrating scalability and technical viability. With its flagship product, the Concrete Waste Upcycling Plant, everox is now launching its first industrial-scale solution, capable of processing up to 500,000 t of concrete waste per year. Compared to primary cement production, upcycling cement paste reduces CO<sub>2</sub> emissions by around 90%, while remaining cost-competitive and generating zero waste”.

<https://www.everox.tech/partners/dura-vermeer-and-c2ca-reduce-concrete-co2-emissions-through-innovative-upcycling-of-concrete-waste/>

SPOTLIGHT