



ASX ANNOUNCEMENT

29 May 2025

KAOLIN TRANSFORMS RED MUD INTO GREEN MATERIAL

HIGHLIGHTS

- **Successful development of a red mud-kaolin low-carbon cement**, through a proprietary material transformation process.
- **95% reduction in chromium leachate** and **complete immobilisation of uranium and thorium** in red mud following treatment of red mud with kaolin.
- **Red mud-kaolin low-carbon cement blend meets EN 12457**, an internationally recognised standard used to assess the leaching behaviour of industrial byproducts, especially for their potential environmental impact.
- **Red mud validated for safe use in low-carbon cement and precast construction products**, offering a **high-value reuse pathway** converting a previously **hazardous industrial byproduct into a construction-grade input**.
- A 30% substitution of Portland cement with the red mud-kaolin blend achieved a **28-day compressive strength of 30 MPa**, representing over 85% of the reference mortar's strength.
- **Commercial potential unlocked of red mud valorisation**, aligning with circular economy and net-zero industry goals.
- Set to commence **commercial-scale validation of proprietary low-carbon cement blends** incorporating red mud and kaolin, **working with JV partner PERMAcast to demonstrate performance across precast concrete product lines**.

Green360 Technologies Limited (ASX:GT3) ("Green360" or "the Company") is pleased to announce that following laboratory testing it has achieved a major environmental and materials science breakthrough that unlocks the commercial potential of red mud, a byproduct of alumina production, for use in sustainable concrete applications.

Aaron Banks
Executive Chairman

Mark Pensabene
Non-Executive Director

Peter Trinder
Non-Executive Director



Red mud is the industrial byproduct produced during the extraction of alumina from bauxite ore. For every tonne of alumina produced, approximately 1-1.5 tonnes of red mud is generated. Managing red mud as a byproduct is a challenge for the mining industry and Green360 has repurposed this industrial byproduct by creating a proprietary low-carbon cement blend as a partial replacement for traditional Portland cement.

Recent laboratory testing has confirmed that when the red mud and kaolin are subjected to a proprietary material transformation process, the resulting material exhibits dramatic reductions in the leachability of certain hazardous elements. Specifically, total chromium levels dropped by over 95%, and both uranium and thorium were fully immobilised, meeting stringent inert waste and drinking water standards.

These results represent a critical milestone in the Company's efforts to repurpose red mud into low-carbon construction materials. The treated material complies with EN 12457 inert classification, with chromium levels of 0.023 mg/L and 0.026 mg/L in treated samples—well below the 0.5 mg/L inert limit. Uranium and thorium were undetectable, effectively removing the radiological risk profile associated with untreated red mud. Testing was performed in accordance with the EN 12457 leaching standard.

Additionally, the red mud-kaolin blend was replicated creating three separate mortar mixes, and, in each case, replacing 30% of Portland cement. The average 28-day compressive strength of the crushed mortar mix was 30 Megapascals (MPa), yielding >85% of the control mortar (being 100% Portland cement).

This advancement and results are encouraging early validation that Green360's low-carbon cement formulations made with industrial byproducts may be suitable for real-world, commercial applications – providing competitive qualities to traditional products, while reducing emissions.

The Company is set to commence commercial-scale validation of its proprietary low-carbon cement blends incorporating red mud and kaolin, working with JV partner PERMAcast to demonstrate performance across precast concrete product lines.

Executive Chairman Aaron Banks Commented:

"The results we have achieved from these low-carbon cement formulations made with red mud, an industrial byproduct that is otherwise waste, and kaolin, are extremely encouraging.

"We've not only addressed a significant environmental challenge by repurposing red mud — a major industrial byproduct — but also unlocked its commercial potential in sustainable construction. The results we've achieved in both environmental safety and strength properties validate our vision for a circular, low-carbon materials future.

"Alongside PERMAcast, we are rapidly developing alternatives to traditional Portland cement that still perform to commercial standards and are suitable for real-world applications.



"We look forward to progressing development of our red mud formulations, and to exploring other industrial byproducts that could be used to create a low-cost, high-quality low-carbon cement product."

Approved for release by the Board

-ENDS-

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About Green360 Technologies Limited

Green360 Technologies (ASX:GT3) is an Australian-based building materials company leading the development of low-cost, low-carbon cement to address an immediate demand in the market. Traditional cement production is a major industrial polluter; Green360 Technologies is using innovative methods to produce an alternative, delivering improved performance and a reduced emissions profile.

Green360 Technologies is executing a commercialisation plan alongside a reputable market leader, focused on near-term and widespread industry adoption of the Company's low-carbon cement.

FORWARD-LOOKING STATEMENTS

This release may contain certain forward-looking statements with respect to matters including but not limited to the financial condition, results of operations and business of GT3 and certain of the plans and objectives of GT3 with respect to these items.

These forward-looking statements are not historical facts but rather are based on GT3's current expectations, estimates and projections about the industry in which GT3 operates and its beliefs and assumptions.

Words such as "anticipates," "considers," "expects," "intends," "plans," "believes," "seeks," "estimates", "guidance" and similar expressions are intended to identify forward looking statements and should be considered an at-risk statement. Such statements are subject to certain risks and uncertainties, particularly those risks or uncertainties inherent in the industry in which GT3 operates.

These statements are not guarantees of future performance and are subject to known and unknown risks, uncertainties, and other factors, some of which are beyond the control of GT3, are difficult to predict and could cause actual results to differ materially from those expressed or forecasted in the forward-looking statements. Such risks include, but are not limited to resource risk, product price volatility, currency fluctuations, increased production costs and variances in product grade or recovery rates from those assumed in mining plans, as well as political and operational risks in the countries and states in which we sell our product to, and government regulation and judicial outcomes. For more detailed discussion of such risks and other factors, see the Company's Annual Reports, as well as the Company's other filings.

GT3 cautions shareholders and prospective shareholders not to place undue reliance on these forward-looking statements, which reflect the view of GT3 only as of the date of this release.

The forward-looking statements made in this announcement relate only to events as of the date on which the statements are made.

GT3 will not undertake any obligation to release publicly any revisions or updates to these forward-looking statements to reflect events, circumstances or unanticipated events occurring after the date of this announcement except as required by law or by any appropriate regulatory authority.