UNIVERSITI TEKNOLOGI MARA
PERAK BRANCH

ECO-FRIENDLY EPOXY FLOOR REFLECTOR

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Innovation project report submitted in partial fulfilment of the requirements for the degree of

Bachelor of Science (Hons.) Construction Technology

Faculty of Architecture, Planning & Surveying

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AUTHOR'S DECLARATION

I declare that the work in this innovation project report was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the results of my own work, unless otherwise indicated or acknowledged as referenced work. This topic has not been submitted to any other academic institution or non-academic institution for any degree or qualification.

In the event that my innovation project report, be found to violate the conditions mentioned above, I voluntarily waive the right of conferment of my degree and agree be subjected to the disciplinary rules and regulations of Universiti Teknologi MARA.

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ABSTRACT

Concrete slabs are vital to the construction industry since they form the primary floor or slab of the building. The usage of concrete slabs in the construction sector benefits Malaysia significantly and has a discernible, favourable impact on the sector as a whole. Greater efficiency will result from removing the issues brought on by the current concrete slab, which will also increase productivity and job quality. In order to create the concrete slab for the courtyard at Kolej Indera Sakti, UiTM Seri Iskandar used a lot more electricity than necessary due to the lack of natural lighting in some rooms, high maintenance costs, and risky daily activities. To increase a product's usability and functionality, it is essential to examine how it is maintained. Further investigation reveals that since an epoxy floor fixes the issues with concrete slabs, it can take the place of a concrete slab. An epoxy floor, however, has its own set of issues and drawbacks. The effectiveness and standard of work on the floors will increase as a result of addressing the current worries and issues with epoxy flooring. The eco-friendly epoxy floor reflector can contribute to enhancing the ground-level hostel's room with some amount of light due to its capacity to reflect light both during the day and at night. This environmentally friendly epoxy floor reflector uses the Polygard flooring system, which can assist reduce maintenance costs. High-performance, long-lasting floor products with an anti-slip coating are also available as Polygard flooring solutions