

PROPATCH: Patching Material for Pavement

By: Siti Rahimah Rosseli



Palm Oil Fuel Ash (POFA) is a waste product from oil palm industry. POFA is detected with high silica and alumina, which makes it an excellent binding material similar to cement.

This research project aims to produce an alternative patching material known as PROPATCH, which promotes innovative and straightforward technique in patching pavement using green and sustainable material. PROPATCH offers dual reaction that comes from POFA as binder and PET treated by Sulphuric Acid, which acts like fibre. The product is another innovation that resulted from industrial collaboration with United Oil Palm Industries Sdn. Bhd. and it also capable of being a multi-purpose patching material for a solid structure, which benefits industrial construction players and give an excellent impact to socio-economic. The waste utilisation in PROPATCH creates a greener environment for the country. As for product recognition,

PROPATCH won Gold Medal in PIID2019 and it was listed as one of the contingent finalists representing UiTM Cawangan Pulau Pinang in IIDEX2019 which held at UiTM Shah Alam on 10-15 September 2019. PROPATCH proudly won another Gold Medal at this prestigious annual event organised by RIBU, UiTM Shah. Alam.

