Scientists at the Nanyang Technological University (NTU) who set out to create a material that can be used on buildings to make the walls and columns stronger have come up with a wrap that is not only bond-resistant, but also capable of withstanding earthquakes.

They say that by using the material in reinforcement and renovation works, historical structures can be preserved and buildings with high footfall can be made safer.

The work involves applying a ready-to-stick film to a wall or concrete pillar, and then leaving it to dry in the sun. After a few hours, a hard protective layer will form on top of the concrete.

The Fast Wrapping Fibre Reinforced Polymer (FasRaP) was jointly developed by scientists and engineers from NTU as well as engineers from JTC and Prostruct Consulting. FasRaP was first applied by the NTU team in 2015 to reinforce some of its developments by the end of this year.

The lead project investigator on the NTU team is Professor Ng Kee Woei, from NTU’s School of Materials Science and Engineering, and Dr Ang Choon Keat, founder of Prostruct Consulting.

FasRaP is suitable for strengthening buildings, like steel reinforcement, bare concrete structures, protecting essential infrastructure along the life of older buildings and meeting building standards and practices to plan their journeys in advance.

With the completion of the new crossover track, there will be additional shuttle bus services and existing shuttle services to continue to operate.

At the stations every one to three minutes.

Both bus services will follow the same fare structure as trains.

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