COMPARING ASPHALT PRESERVATION PRODUCTS ON A GROOVED RUNWAY

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ABSTRACT
Three mineral filled and three non-filled bitumen emulsion-based asphalt preservation products were applied, each at three different application rates, to the grooved runway surface at Sunshine Coast Airport. The products were monitored for post-application tackiness, as well as tested for surface friction, surface texture and asphalt permeability, for six months following application. The three products within each type were not significantly different to each. However, the two product types were significantly different and products from each type are not considered to be equivalent. Furthermore, when visually assessed approximately twelve months after application, the primary factor affecting the apparent durability of the products was the residual (non-water) application rate. Consequently, it is recommended that specification of these products focus on whether the product is mineral filled or not, as well as the residual application rate, rather than a product application rate, which has been commonly specified in the past.