

Polished Stone Value (PSV) Extended Polishing

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The deriving of the polished stone value (PSV) does not give a good indication of on road performance. Surfacing aggregate is mounted on a wheel and is subject to three hours of coarse polishing, followed by three hours of fine polishing. The friction come degree of aggregate polishing is derived by carrying out a British pendulum test, which produces the PSV number. At this point, the PSV derived, is a point in time test value and does not indicate how the aggregate will perform on site. In NZ over the last five years various surface aggregates have been subject to a modification of this standard test, where by BPNs are taken at various intervals up to 12 hours, thus the test is called PSV12.

The presentation will describe how PSV12 testing is carried out, as well as the learnings to date. Repeatability is one aspect that is being assessed. The limited testing has shown an apparent trend, which indicates the shape of the curve, as a plot of the various BPN numbers over the 12 hours, appears to replicate on site performance. Also there appears to be an association with rock type and polishing.