

RECYCLING PAVEMENT WITH ADDITION OF CEMENT

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ABSTRACT

This study presents a performance evaluation of recycling with the addition of cement used in the restoration of state highway SC 303, between federal highway BR 282 and Capinzal (SC). This 30-km stretch had suffered total structural decay of the pavement, base and shoulder with loss of level and intense erosion. The recycling executed between the years of 2006-2008 included a) addition of 15% of virgin aggregate to establish the gradation; b) addition of 3% in weight of cement; c) pulverization of the surface pavement (8.0cm) and part of the base layer (12.0cm); d) execution of the surface layer in 4.5 cm of asphalt rubber. Laboratory and field tests are presented to provide parameters for consultants, builders and administrators in new highway restoration projects considering this technology.

KEY WORDS: Recycling with addition of cement, highway restoration