

(3)加入 UFPSBR 可以提高沥青的热稳定性,使其粘性和弹性得到明显改善,抵抗外力的能力得到显著提高,同时可以大幅降低噪声。

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## Road Performance of Asphalt Modified with Ultra-fine Full-vulcanized SBR Powder

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**Abstract:** The asphalt modified with ultra-fine full-vulcanized SBR powder (UFPSBR) was prepared by wet process, and its road performance was investigated. The results showed that, the performance of asphalt modified with UFPSBR basically met the requirements of corresponding standard except the ductility at 5 °C. UFPSBR was evenly distributed in asphalt to form relatively stable structure, and the compatibility between asphalt and UFPSBR was good. With the addition level of UFPSBR increasing, the size of dispersed UFPSBR particle increased and some particles were slightly agglomerated. By adding UFPSBR, the thermal stability of asphalt increased, the viscosity and elasticity improved significantly, the resistance to external force was improved sharply, and the traffic noise reduced significantly.

**Key words:** ultra-fine full-vulcanized SBR powder; modified asphalt; road performance

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