

THE EFFECTS OF HEATING OPERATION ON THE VALUE OF BITUMEN PENETRATION

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Tóm tắt bằng tiếng Việt:

Penetration is an important factor of bitumen as an indicator of bitumen viscosity. The change in bitumen viscosity will affect on mechanical characteristics of the aggregate and bitumen mixture. From existing construction technologies of asphalt pavements combined with the analysis of bitumen heating technologies in tank-trucks and at asphalt mixing plants, we performed the replication of bitumen heating operation in laboratory and testing of penetration factor according to different heating operation. As a result, we proposed suitable extents of heating operation to ensure that the heated bitumen penetration value is acceptable when construction. The study results will help construction units on selecting of bitumen heating operation easily, contributing to the increase of pavement lifetime, enhancing road level of services, reducing traffic accidents and boosting the economics efficiency. The study results will help construction units on selecting of bitumen heating operation easily, contributing to the increase of pavement lifetime, enhancing road level of services, reducing traffic accidents and boosting the economics efficiency.

Từ khóa: heating operation; dense bitumen 60/70; bitumen penetration; level of service; heating technology.

Tóm tắt bằng tiếng Anh:

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