

Pengaruh temperatur dan pembebanan terhadap sifat mekanis beton aspal campuran panas AC-WC dan HRS = Temperature and loading effects on the mechanical properties of AC-WC and HRS hot mix asphaltic concrete

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Abstrak

Tesis ini membahas pengaruh temperatur dan pembebanan terhadap sifat mekanis beton aspal campuran panas gradasi agregat menerus AC-WC dan senjang HRS. Dilakukan pengujian menggunakan Umatta serta Wheel Tracking Device. Data diolah dengan faktorial desain analisis.

Kesimpulan: Kedua macam gradasi, variasi temperatur serta pembebanan berpengaruh signifikan terhadap regangan tarik, tegangan tarik, modulus resilien, stabilitas dinamis, nilai serta laju deformasi permanen dalam merespon variasi pembebanan dan temperatur, namun HRS lebih kuat dari AC-WC.

.....This thesis discusses the temperature and loading's influence on the hot mix asphaltic concrete's mechanical properties AC-WC dense graded and the HRS aggregate's gap. The test is done using UMATTA and Wheel Tracking Device. The data is analyzed using factorial design analysis.

Conclusions: Both kinds of gradation, temperature and loading variation have significant effect on strain tensile, tensile strength, modulus resilient, dynamic stability, the rate of permanent deformation and deformation value. Both types of aggregate gradation show the same pattern and tendency to respond the loading and temperature variation, but HRS is stronger.