ABSTRAK

Perkerasan jalan dibutuhkan bahan pengikat yaitu aspal yang berupa bahan campuran pembuatan jalan. Aspal memiliki beberapa jenis yaitu, aspal alam, aspal modifikasi, aspal keras, dan aspal cair Modifikasi yang berbeda untuk aspal sedang dieksplorasi seperti modifikasi dengan Sasobit lilin, karbon hitam, serat mineral dan lain-lain. Pada penelitian ini menggunakan *lateks* sebagai bahan campuran aspal. Tujuan penelitian guna menganalisis campuran aspal dengan penetrasi 60/70 pada penambahan *lateks*. Pada saat penelitian menggunakan metode *Marshall* untuk mengetahui nilai dari *Flow*, VIM, VMA, VFA, MQ, Stabilitas, dan *Density* dengan digunakannya *lateks* sebagai bahan campur aspal. Hasil pengujian kadar aspal 5,5% dengan kadar variasi *lateks* 0%, 2%, 4% dan 6% didapatkan hasil KAO pada kadar variasi *lateks* 6% dengan nilai *Flow* sebesar 3,71 mm, nilai VIM sebesar 3,71%, nilai VMA sebesar 15,82%, nilai VFA sebesar 97,63%, nilai MQ sebesar 344,55 kg/mm, nilai Stabilitas sebesar 1069,58 kg, dan nilai *Density* sebesar 2,35.

Kata-kata kunci: Campuran aspal, Pengujian *Marshall*, *Lateks*.

ABSTRACT

Road pavement needs a binding material namely asphalt in the form of a mixture of material for road construction. Asphalt has some types namely natural asphalt, modified asphalt, asphalt cement, and cut back asphalt. The different modifications of asphalt that has been being explored were the modification with Sasobit wax, Carbon Black, Mineral fibres and so on. In this research, latex was used as the material for asphalt mixture. The research objective was to analyze the mixture of asphalt with the asphalt penetration 60/70 and the addition of latex. The research was done using the Marshall method to know the Flow, VIM, VMA, VFA, MQ, Stability, and Density values by using latex as the material for asphalt mixture. The result of the test toward the asphalt content of 5.5% and the latex content in variation of 0%, 2%, 4%, and 6% showed that the OBC at a latex content of 6% had Flow 3.71 mm, VIM 3.71%, VMA 15.82%, VFA 97.63%, MQ 344.55 kg/mm, Stability 1069.58 kg, and Density 2.35.

Key words: Asphalt mixture, Marshall testing, Latex