

DAFTAR GAMBAR

Gambar 4.1 Tes Berat Jenis Aspal Retona	82
Gambar 4.2 Tes Penetrasi Aspal Retona.....	83
Gambar 4.3 Grafik Hubungan Kadar Aspal Retona 2%-7% vs %VIM (A)	86
Gambar 4.4 Grafik Hubungan Kadar Aspal Retona 2%-7% vs %VIM (B)	86
Gambar 4.5 Grafik Hubungan Kadar Aspal Retona 2%-7% vs %VIM (C)	87
Gambar 4.6 Grafik Hubungan Kadar Aspal Retona 2%-7% vs %VIM (Rata2)....	87
Gambar 4.7 Grafik Hubungan Kadar Aspal Retona 2%-7% vs %VMA (A).....	87
Gambar 4.8 Grafik Hubungan Kadar Aspal Retona 2%-7% vs %VMA (B).....	87
Gambar 4.9 Grafik Hubungan Kadar Aspal Retona 2%-7% vs %VMA (C).....	88
Gambar 4.10 Grafik Hub. Kadar Aspal Retona 2%-7% vs %VMA (Rata2).....	88
Gambar 4.11 Grafik Hubungan Kadar Aspal Retona 2%-7% vs %VFB (A)	88
Gambar 4.12 Grafik Hubungan Kadar Aspal Retona 2%-7% vs %VFB (B).....	88
Gambar 4.13 Grafik Hubungan Kadar Aspal Retona 2%-7% vs %VFB (C).....	89
Gambar 4.14 Grafik Hub. Kadar Aspal Retona 2%-7% vs %VFB (Rata2).....	89
Gambar 4.15 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Stabilitas (A)....	89
Gambar 4.16 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Stabilitas (B)....	89
Gambar 4.17 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Stabilitas (C)....	90
Gambar 4.18 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Stab. (Rata2)....	90
Gambar 4.19 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Flow (A).....	90

Gambar 4.20 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Flow (B)	90
Gambar 4.21 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Flow (C)	91
Gambar 4.22 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Flow (Rata2)....	91
Gambar 4.23 Grafik Hubungan Kadar Aspal Retona 2%-7% vs MQ (A).....	92
Gambar 4.24 Grafik Hubungan Kadar Aspal Retona 2%-7% vs MQ (B).....	92
Gambar 4.25 Grafik Hubungan Kadar Aspal Retona 2%-7% vs MQ (C).....	92
Gambar 4.26 Grafik Hubungan Kadar Aspal Retona 2%-7% vs MQ (Rata2).....	92
Gambar 4.27 Grafik Hubungan Kadar Aspal Retona 2%-7% vs VIM (A).....	94
Gambar 4.28 Grafik Hubungan Kadar Aspal Retona 2%-7% vs VIM (B).....	94
Gambar 4.29 Grafik Hubungan Kadar Aspal Retona 2%-7% vs VIM (C).....	94
Gambar 4.30 Grafik Hubungan Kadar Aspal Retona 2%-7% vs VIM (Rata2)	94
Gambar 4.31 Grafik Hubungan Kadar Aspal Retona 2%-7% vs VMA (A)	95
Gambar 4.32 Grafik Hubungan Kadar Aspal Retona 2%-7% vs VMA (B)	95
Gambar 4.33 Grafik Hubungan Kadar Aspal Retona 2%-7% vs VMA (C)	95
Gambar 4.34 Grafik Hubungan Kadar Aspal Retona 2%-7% vs VMA (Rata2)...	95
Gambar 4.35 Grafik Hubungan Kadar Aspal Retona 2%-7% vs VFB (A).....	96
Gambar 4.36 Grafik Hubungan Kadar Aspal Retona 2%-7% vs VFB (B).....	96
Gambar 4.37 Grafik Hubungan Kadar Aspal Retona 2%-7% vs VFB (C).....	96
Gambar 4.38 Grafik Hubungan Kadar Aspal Retona 2%-7% vs VFB (Rata2)	96
Gambar 4.39 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Stab. (A)	97
Gambar 4.40 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Stab. (B)	97
Gambar 4.41 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Stab. (C)	97
Gambar 4.42 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Stab. (Rata2)....	97

Gambar 4.43 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Flow (A)	98
Gambar 4.44 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Flow (B)	98
Gambar 4.45 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Flow (C)	99
Gambar 4.46 Grafik Hubungan Kadar Aspal Retona 2%-7% vs Flow (Rata2)....	99
Gambar 4.47 Grafik Hubungan Kadar Aspal Retona 2%-7% vs MQ (A).....	99
Gambar 4.48 Grafik Hubungan Kadar Aspal Retona 2%-7% vs MQ (B).....	99
Gambar 4.49 Grafik Hubungan Kadar Aspal Retona 2%-7% vs MQ (C).....	100
Gambar 4.50 Grafik Hubungan Kadar Aspal Retona 2%-7% vs MQ (Rata2)....	100
Gambar 4.51 Grafik Hub.Kadar Lateks vs VIM (A), Kadar Aspal 5,2%	102
Gambar 4.52 Grafik Hub.Kadar Lateks vs VIM (B), Kadar Aspal 5,2%	102
Gambar 4.53 Grafik Hub.Kadar Lateks vs VIM (C), Kadar Aspal 5,2%	102
Gambar 4.54 Grafik Hub. Kadar Lateks vs VIM (Rata2), Kadar Aspal 5,2%....	102
Gambar 4.55 Grafik Hub. Kadar Lateks vs VMA (A), Kadar Aspal 5,2%	103
Gambar 4.56 Grafik Hub. Kadar Lateks vs VMA (B), Kadar Aspal 5,2%	103
Gambar 4.57 Grafik Hub. Kadar Lateks vs VMA (C), Kadar Aspal 5,2%	104
Gambar 4.58 Grafik Hub. Kadar Lateks vs VMA (Rata2), Kadar Aspal 5,2% ..	104
Gambar 4.59 Grafik Hub. Kadar Lateks vs VFB (A), Kadar Aspal 5,2%	104
Gambar 4.60 Grafik Hub. Kadar Lateks vs VFB (B), Kadar Aspal 5,2%	104
Gambar 4.61 Grafik Hub. Kadar Lateks vs VFB (C), Kadar Aspal 5,2%	105
Gambar 4.62 Grafik Hub. Kadar Lateks vs VFB (Rata2), Kadar Aspal 5,2%....	105
Gambar 4.63 Grafik Hub. Kadar Lateks vs Stabilitas (A), Kadar Aspal 5,2% ...	105
Gambar 4.64 Grafik Hub. Kadar Lateks vs Stabilitas (B), Kadar Aspal 5,2% ...	105
Gambar 4.65 Grafik Hub. Kadar Lateks vs Stabilitas (C), Kadar Aspal 5,2% ...	106

Gambar 4.66 Grafik Hub.Lateks vs Stabilitas (Rata2), 5,2% Metode SNI.....	106
Gambar 4.67 Grafik Hub. Kadar Lateks vs Flow (A), Kadar Aspal 5,2%	106
Gambar 4.68 Grafik Hub. Kadar Lateks vs Flow (B), Kadar Aspal 5,2%.....	106
Gambar 4.69 Grafik Hub. Kadar Lateks vs Flow (C), Kadar Aspal 5,2%.....	107
Gambar 4.70 Grafik Hub. Kadar Lateks vs Flow (Rata2), Kadar Aspal 5,2% ...	107
Gambar 4.71 Grafik Hub. Kadar Lateks vs MQ (A), Kadar Aspal 5,2%	108
Gambar 4.72 Grafik Hub. Kadar Lateks vs MQ (B), Kadar Aspal 5,2%	108
Gambar 4.73 Grafik Hub. Kadar Lateks vs MQ (C), Kadar Aspal 5,2%	108
Gambar 4.74 Grafik Hub. Kadar Lateks vs MQ (Rata2), Kadar Aspal 5,2%	108
Gambar 4.75 Grafik Hub. Kadar Lateks vs VIM (A), Kadar Aspal 5,4%	109
Gambar 4.76 Grafik Hub. Kadar Lateks vs VIM (B), Kadar Aspal 5,4%	109
Gambar 4.77 Grafik Hub. Kadar Lateks vs VIM (C), Kadar Aspal 5,4%	109
Gambar 4.78 Grafik Hub. Kadar Lateks vs VIM (Rata2), Kadar Aspal 5,4%....	109
Gambar 4.79 Grafik Hub. Kadar Lateks vs VMA (A), Kadar Aspal 5,4%	110
Gambar 4.80 Grafik Hub. Kadar Lateks vs VMA (B), Kadar Aspal 5,4%	110
Gambar 4.81 Grafik Hub. Kadar Lateks vs VMA (C), Kadar Aspal 5,4%	110
Gambar 4.82 Grafik Hub. Kadar Lateks vs VMA (Rata2), Kadar Aspal 5,4% ..	110
Gambar 4.83 Grafik Hub. Kadar Lateks vs VFB (A), Kadar Aspal 5,4%	111
Gambar 4.84 Grafik Hub. Kadar Lateks vs VFB (B), Kadar Aspal 5,4%	111
Gambar 4.85 Grafik Hub. Kadar Lateks vs VFB (C), Kadar Aspal 5,4%	111
Gambar 4.86 Grafik Hub. Kadar Lateks vs VFB (Rata2), Kadar Aspal 5,4%....	111
Gambar 4.87 Grafik Hub. Kadar Lateks vs Stabilitas (A), Kadar Aspal 5,4% ...	112
Gambar 4.88 Grafik Hub. Kadar Lateks vs Stabilitas (B), Kadar Aspal 5,4% ...	112

Gambar 4.89 Grafik Hub. Kadar Lateks vs Stabilitas (C), Kadar Aspal 5,4% ...	112
Gambar 4.90 Grafik Hub. Kadar Lateks vs Stab. (Rata2), Kadar Aspal 5,4% ...	112
Gambar 4.91 Grafik Hub. Kadar Lateks vs Flow (A), Kadar Aspal 5,4%	113
Gambar 4.92 Grafik Hub. Kadar Lateks vs Flow (B), Kadar Aspal 5,4%.....	113
Gambar 4.93 Grafik Hub. Kadar Lateks vs Flow (C), Kadar Aspal 5,4%.....	113
Gambar 4.94 Grafik Hub. Kadar Lateks vs Flow (Rata2), Kadar Aspal 5,4% ...	113
Gambar 4.95 Grafik Hub. Kadar Lateks vs MQ (A), Kadar Aspal 5,4%	114
Gambar 4.96 Grafik Hub. Kadar Lateks vs MQ (B), Kadar Aspal 5,4%	114
Gambar 4.97 Grafik Hub. Kadar Lateks vs MQ (C), Kadar Aspal 5,4%	114
Gambar 4.98 Grafik Hub. Kadar Lateks vs MQ (Rata2), Kadar Aspal 5,4%	114
Gambar 4.99 Grafik Hub. Kadar Lateks vs VIM (A), Kadar Aspal 6% (SNI) ...	115
Gambar 4.100 Grafik Hub. Kadar Lateks vs VIM (B), Kadar Aspal 6% (SNI) ..	115
Gambar 4.101 Grafik Hub. Kadar Lateks vs VIM (C), Kadar Aspal 6% (SNI) ..	115
Gambar 4.102 Grafik Hub. Kadar Lateks vs VIM (Rata2), Kadar Aspal 6% (SNI)	115
Gambar 4.103 Grafik Hub. Kadar Lateks vs VMA (A), Kadar Aspal 6% (SNI) .	116
Gambar 4.104 Grafik Hub. Kadar Lateks vs VMA (B), Kadar Aspal 6% (SNI) ..	116
Gambar 4.105 Grafik Hub. Kadar Lateks vs VMA (C), Kadar Aspal 6% (SNI) ..	116
Gambar 4.106 Grafik Hub. Kadar Lateks vs VMA (Rata2), Kadar Aspal 6% (SNI)	116
Gambar 4.107 Grafik Hub. Kadar Lateks vs VFB (A), Kadar Aspal 6% (SNI) ...	117
Gambar 4.108 Grafik Hub. Kadar Lateks vs VFB (B), Kadar Aspal 6% (SNI) ...	117
Gambar 4.109 Grafik Hub. Kadar Lateks vs VFB (C), Kadar Aspal 6% (SNI) ...	117

Gambar 4.110 Grafik Hub. Lateks vs VFB (Rata2), Kadar Aspal 6% (SNI)	117
Gambar 4.111 Grafik Hub. Lateks vs Stabilitas (A), Kadar Aspal 6% (SNI).....	118
Gambar 4.112 Grafik Hub. Lateks vs Stabilitas (B), Kadar Aspal 6% (SNI).....	118
Gambar 4.113 Grafik Hub. Lateks vs Stabilitas(C), Kadar Aspal 6% (SNI).....	118
Gambar 4.114 Grafik Hub.Lateks vs Stabilitas (Rata2),Kadar Aspal 6% (SNI).	118
Gambar 4.115 Grafik Hub.Kadar Lateks vs Flow (A),Kadar Aspal 6% (SNI)...	119
Gambar 4.116 Grafik Hub.Kadar Lateks vs Flow (B),Kadar Aspal 6% (SNI)...	119
Gambar 4.117 Grafik Hub.Kadar Lateks vs Flow (C),Kadar Aspal 6% (SNI)...	119
Gambar 4.118 Grafik Hub.Kadar Lateks vs Flow (Rata2), Kadar Aspal 6% (SNI)	119
Gambar 4.119 Grafik Hub.Kadar Lateks vs MQ (A), Kadar Aspal 6% (SNI) ...	120
Gambar 4.120 Grafik Hub.Kadar Lateks vs MQ (B), Kadar Aspal 6% (SNI)....	120
Gambar 4.121 Grafik Hub.Kadar Lateks vs MQ (C), Kadar Aspal 6% (SNI)....	120
Gambar 4.122 Grafik Hub. Lateks vs MQ (Rata2),Kadar Aspal 6% (SNI)	120
Gambar 4.123 Grafik Hub. Lateks vs VIM (A), Kadar Aspal 6% (Statistik)	121
Gambar 4.124 Grafik Hub. Lateks vs VIM (B), Kadar Aspal 6% (Statistik)	121
Gambar 4.125 Grafik Hub. Lateks vs VIM (C), Kadar Aspal 6% (Statistik)	122
Gb. 4.126 Grafik Hub.Kadar Lateks vs VIM (Rata2),Kadar Aspal 6% (Stat.)...	122
Gambar 4.127 Grafik Hub. Lateks vs VMA (A), Kadar Aspal 6% (Statistik) ...	122
Gambar 4.128 Grafik Hub. Lateks vs VMA (B), Kadar Aspal 6% (Statistik)....	122
Gambar 4.129 Grafik Hub.Lateks vs VMA (C), Kadar Aspal 6% (Statistik).....	123
Gambar 4.130 Grafik Hub. Kadar Lateks vs VMA (Rata2), Kadar Aspal 6% (Statistik)	123

Gambar 4.131 Grafik Hub.Lateks vs VFB (A), Kadar Aspal 6% (Statistik).....	124
Gambar 4.132 Grafik Hub.Lateks vs VFB (B), Kadar Aspal 6% (Statistik)	124
Gambar 4.133 Grafik Hub.Lateks vs VFB (C), Kadar Aspal 6% (Statistik)	124
Gambar 4.134 Grafik Hub. Kadar Lateks vs VFB (Rata2), Kadar Aspal 6% (Statistik)	124
Gambar 4.135 Grafik Hub.Lateks vs Stabilitas (A),Kadar Aspal 6% (Statistik)	125
Gambar 4.136 Grafik Hub.Lateks vs Stabilitas (B),Kadar Aspal 6% (Statistik)	125
Gambar 4.137 Grafik Hub.Lateks vs Stabilitas (C),Kadar Aspal 6% (Statistik)	125
Gambar 4.138 Grafik Hub. Kadar Lateks vs Stabilitas(Rata2), Kadar Aspal 6% (Statistik)	125
Gambar 4.139 Grafik Hub.Lateks vs Flow (A), Kadar Aspal 6% (Statistik)	126
Gambar 4.140 Grafik Hub.Lateks vs Flow (B), Kadar Aspal 6% (Statistik).....	126
Gambar 4.141 Grafik Hub.Lateks vs Flow (C), Kadar Aspal 6% (Statistik).....	126
Gambar 4.142 Grafik Hub. Kadar Lateks vs Flow (Rata2), Kadar Aspal 6% (Statistik)	126
Gambar 4.143 Grafik Hub. Kadar Lateks vs MQ (A), Kadar Aspal 6% (Statistik)	127
Gambar 4.144 Grafik Hub. Kadar Lateks vs MQ (B), Kadar Aspal 6% (Statistik)	127
Gambar 4.145 Grafik Hub. Kadar Lateks vs MQ (C), Kadar Aspal 6% (Statistik)	127
Gambar 4.146 Grafik Hub. Kadar Lateks vs MQ (Rata2), Kadar Aspal 6% (Statistik)	127

DAFTAR ISI

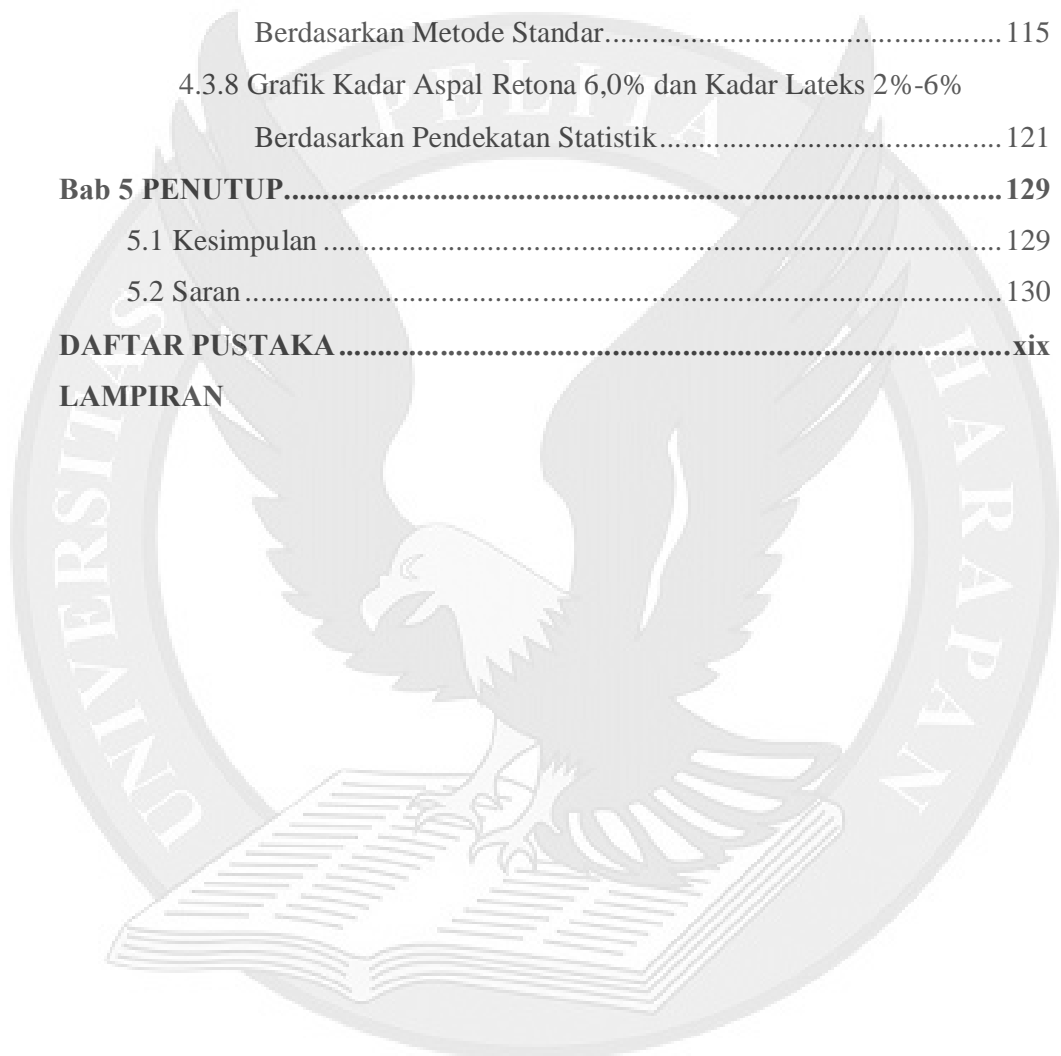
halaman

HALAMAN JUDUL	
PERNYATAAN KEASLIAN TUGAS AKHIR	
PERSETUJUAN DOSEN PEMBIMBING	
PERSETUJUAN TIM PENGUJI TUGAS AKHIR	
ABSTRAK	i
ABSTRACT	ii
KATA PENGANTAR	iii
DAFTAR ISI	v
DAFTAR GAMBAR	ix
DAFTAR TABEL	xvi
DAFTAR SINGKATAN	xvii
DAFTAR LAMPIRAN	xviii
Bab 1 PENDAHULUAN	1
1.1 Latar Belakang.....	1
1.2 Perumusan Masalah.....	3
1.3 Ruang Lingkup Penelitian.....	3
1.4 Maksud dan Tujuan Penelitian.....	4
1.5 Metodologi Penulisan.....	5
1.6 Sistematika Penulisan.....	6
Bab 2 TINJAUAN PUSTAKA	9
2.1 Agregat.....	9
2.1.1 Sifat Agregat Sebagai Perkerasan Jalan.....	10
2.1.2 Agregat Berdasarkan Gradasi.....	11
2.1.3 Analisa Ayakan Agregat Menggunakan Pendekatan Statistik.....	13
2.1.4 Daya Tahan Agregat.....	16
2.1.5 Berat Jenis dan Daya Serap Agregat.....	17
2.2 Aspal.....	17
2.2.1 Aspal Retona.....	20

2.2.2 Titik Lembek Aspal.....	21
2.2.3 Titik Bakar dan Titik Nyala Bahan Aspal.....	22
2.3 Campuran Beton Aspal.....	23
2.3.1 Sifat Volumetrik Beton Aspal.....	24
2.3.2 Perancangan Beton Aspal.....	28
2.3.3 Karakteristik Beton Aspal.....	30
2.4 Lateks Alam	32
2.4.1 Jenis Karet Alam.....	33
2.4.2 Interaksi Aspal dan Lateks.....	34
2.4.3 Keuntungan Campuran Aspal dan Lateks.....	34
2.5 Marshall	35
Bab 3 METODOLOGI PENELITIAN	38
3.1 Program Kerja dan Uji Laboratorium.....	38
3.2 Bahan Penelitian.....	38
3.3 Pengujian Agregat	39
3.3.1 Pembersihan Agregat.....	39
3.3.2 Analisa Saringan Agregat.....	39
3.3.3 Pemeriksaan Berat Jenis dan Penyerapan Agregat Kasar.....	41
3.3.4 Pemeriksaan Berat Jenis dan Penyerapan Agregat Halus.....	43
3.3.5 Pengujian Keausan Agregat dengan Mesin Los Angeles.....	44
3.4 Pengujian Aspal Retona.....	44
3.4.1 Pemeriksaan Titik Lembek Aspal.....	45
3.4.2 Pemeriksaan Titik Nyala Aspal.....	46
3.4.3 Pemeriksaan Daktilitas.....	47
3.4.4 Pemeriksaan Berat Jenis Aspal.....	48
3.4.5 Pemeriksaan Penetrasi Aspal.....	49
3.4.6 Pemeriksaan Penurunan Berat (TFOT)	50
3.4.7 Pemeriksaan Penetrasi Penurunan Berat (Dengan TFOT)	50
3.4.8 Pemeriksaan Spesifikasi Lateks.....	51
3.5 Pengujian Marshall.....	51
3.5.1 Peralatan dan Bahan.....	52

3.5.2	Prosedur Penelitian.....	54
3.6	Perencanaan Campuran Kadar Aspal Optimum	58
3.7	Perencanaan Campuran Aspal Optimum dan Lateks	58
3.7.1	Prosedur Pencampuran Aspal dan Lateks	59
3.7.2	Pemadatan Campuran Aspal dan Lateks.....	60
Bab 4	ANALISA HASIL PENELITIAN.....	61
4.1	Hasil Pengujian Agregat	61
4.1.1	Hasil Analisa Saringan Agregat Kasar Berdasarkan Pendekatan Statistik.....	61
4.1.2	Hasil Analisa Saringan Agregat Halus Berdasarkan Pendekatan Statistik.....	68
4.1.3	Perhitungan Agregat Kasar dan Halus Berdasarkan Metode Standar	75
4.1.4	Hasil Pemeriksaan Berat Jenis dan Penyerapan Agregat Kasar....	78
4.1.5	Hasil Pemeriksaan Berat Jenis dan Penyerapan Agregat Halus....	79
4.1.6	Hasil Pemeriksaan Abrasi	80
4.2	Hasil Pengujian Aspal Retona.....	81
4.2.1	Hasil Pemeriksaan Titik Lembek Aspal.....	81
4.2.2	Hasil Pemeriksaan Titik Nyala Aspal.....	81
4.2.3	Hasil Pemeriksaan Berat Jenis Aspal.....	82
4.2.4	Hasil Pemeriksaan Penurunan Berat Aspal (TFOT).....	82
4.2.5	Hasil Pemeriksaan Penetrasi Aspal Retona.....	82
4.2.6	Hasil Pemeriksaan Penetrasi Setelah Penurunan Berat Aspal (TFOT).....	83
4.2.7	Hasil Pemeriksaan Daktilitas.....	84
4.3	Hasil Pengujian Campuran Aspal	85
4.3.1	Analisa Penentuan Kadar Aspal Retona	85
4.3.2	Analisa Kadar Aspal Retona Berdasarkan Metode Standar.....	85
4.3.3	Analisa Kadar Aspal Retona Berdasarkan Pendekatan Statistik...	93
4.3.4	Analisa Persentase Kadar Lateks dalam Campuran Aspal	101

4.3.5 Grafik Kadar Aspal Retona 5,2% dan Kadar Lateks 2%-6%	
Berdasarkan Metode Standar.....	102
4.3.6 Grafik Kadar Aspal Retona 5,4% dan Kadar Lateks 2%-6%	
Berdasarkan Pendekatan Statistik.....	109
4.3.7 Grafik Kadar Aspal Retona 6,0% dan Kadar Lateks 2%-6%	
Berdasarkan Metode Standar.....	115
4.3.8 Grafik Kadar Aspal Retona 6,0% dan Kadar Lateks 2%-6%	
Berdasarkan Pendekatan Statistik.....	121
Bab 5 PENUTUP.....	129
5.1 Kesimpulan	129
5.2 Saran	130
DAFTAR PUSTAKA.....	xix
LAMPIRAN	



DAFTAR SINGKATAN

AASHTO = *American Association of State Highway and Transportation*

Officials

Agr. = Agregat

Asp. = Aspal

AC = Asphalt Cement

ASTM = *American Society for Testing and Materials*

BJ = Berat Jenis

cm = centimeter

gr = gram

HMA = *Hot Mix Asphalt*

MQ = *Marshall Quotient*

mm = milimeter

Pen = Penetrasi

SNI = *Standar Nasional Indonesia*

SSD = *Saturated Surface Dry*

TFOT = *Thin Film Oven Test*

UK = *United Kingdom*

VFB = *Voids Filled with Bittumen*

VIM = *Voids in Mixture*

VMA = *Voids in Mineral Aggregate*

DAFTAR TABEL

Tabel 2.1 Gradasi Agregat Halus.....	11
Tabel 2.2 Gradasi Agregat Kasar.....	12
Tabel 4.1 No. Saringan Agregat Kasar	62
Tabel 4.2 Tabel Frekuensi Saringan 1ö.....	63
Tabel 4.3 Seluruh Nilai Modus, Nilai Median, dan Nilai Mean	66
Tabel 4.4 No. Saringan Agregat Halus	68
Tabel 4.5 Tabel Frekuensi Saringan No.12.....	70
Tabel 4.6 Seluruh Nilai Modus, Nilai Median, dan Nilai Mean	72
Tabel 4.7 Persentase Minimum Rongga Dalam Agregat.....	75
Tabel 4.8 Hasil Pemeriksaan Berat Jenis dan Penyerapan Agregat Kasar	79
Tabel 4.9 Hasil Pemeriksaan Berat Jenis dan Penyerapan Agregat Halus	80
Tabel 4.10 Hasil Perhitungan % Asli Penetrasi Setelah Penurunan.....	84
Tabel 4.11 Hasil Perhitungan Pengujian Aspal Retona Pen 60/70.....	84
Tabel 5.1 Nilai Stabilitas dan Marshall Quotient	130