

Much Asphalt (Pty) Ltd., Coedmore

Asphalt Mix Design

Mix Type **Type D + 10% Rap**

Ref Number **CL/09/M008**

Date **14/03/2009**

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Aggregates

Number	Nominal size	Description and Source
1 (CL/0029)	13.2mm Stone	Crushed stone ex Afrisam Quarry
2 (CL/0030)	6.7mm Stone	Crushed stone ex Afrisam Quarry
3 (CL/0033)	Crusher dust	Crusher Dust ex Lafarge Quarry- Ridgeview
4 (CL/0073)	C/dust hotbin	Crusher Dust hotbin ex Plant
5 (CL/0034)	Sand	Sand ex Multi Sand
6	RA (8 - 16mm)	Rap ex Durban Corporation
7	RA (0 - 8mm)	Rap ex Durban Corporation

Fillers

Number	Type	Description and Source
8 (CL/0036)	Lime	Hydrated Lime

Sieve Analysis and % Passing

Sample Number	Aggregates								Fillers		Previous Combined Grading	Combined Grading	Specification
	1	2	3	4	5	6	7	8					
% In Mix	24%	17%	29%	14%	5%	4%	6%	1%		100.0%			
37.5													
26.5						100	100						
19.0	100					100	100			100	100	100 - 100	
13.2	95					97	100			99	99	84 - 100	
9.5	42	100	100			74	100			85	85	70 - 92	
6.7	13	88	99	100	100	49	99			75	75		
4.75	9	34	95	97	99	37	96			62	62	50 - 70	
2.36	6	2	69	60	91	27	87			41	42	37 - 55	
1.18	5	1	48	32	67	22	46			28	28	26 - 41	
0.600	5	1	36	17	32	18	34			20	20	16 - 28	
0.300	4	1	26	9	8	13	25	100		14	13	12 - 20	
0.150	3	1	20	4	1	9	16	98		10	10	8 - 15	
0.075	2.5	0.7	14.7	2.2	0.4	6.1	10.1	86.5		7.2	7.0	4 - 10	
BRD of Aggregate	2.670	2.569	2.656	2.667	2.619	2.683	2.674	2.312			2.643		
Flakiness Index %	24.5	39.5											
LUW	1435	1326	1672	1646	1541								
RUW	1586	1468	1862	1812	1686								
Sand Equivalent %			25	79	91								
Water Absorption %	0.7	1.2	1.0	0.8	0.3								

