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(12) (A)

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(22) 2002 12 13  
2002 12 13  
(86) PCT/US2001/18947 (87) WO 2001/96480  
(86) 2001 06 13 (87) 2001 12 20

(72)

48335	25511
48362	84
39110	146
39047	216

(74)

(54)

1

가

가

]

가

100%

99/16840

[ " (mastic pad)"

가

가

가 . (VOC)  
, (sealer) (deck)

가

가 . (swirl)

가

가 . , , , , (well),  
(underbody)

(baking)

가

2000 ERTECH \* 2020 [ ; Ergon Asphalt and Emulsions Incorporated( \* :  
, )] . ERTECH \* 20

가 12g/100g

가 가  
가 . 가

(Dolomite)



(conditioning)

가

가

가

, 90

60

가

130

, 가

140

100

120

205

200

가

180

170

가

, 가

가

(shell)

가

(primer coat),

(paint coat)

(clear coat)

가

%

1

g, ( ) 9617g \*X45 ( (ERTECH) \* 20, ; Ergon Inc.) 15000  
 ; The Dow Chemical Company) 36g. (Brookfield) (#7 ) 20r  
 pm 14600cps , 100rpm 8100cps e - (e - coated)  
 (Graco Precision Swirl) 1.0 5.0mm  
 5 , 350 ( ) 20 가

50 % (Oberst) (SAE J1637)  
 1

2

- (Kitchen - Aid)  
 on Asphalt and Emulsions Inc.) 180g, 291( : ( \*2020, ; Erg  
 ( ; The Dow Chemical Company) 0.6g. 가 10.8 (0.132mm) \*X45  
 , 25 ). , 280kPa, 20g

30 (bar) e - 2 3.7mm  
 , 350 ( ) 20 가

40 % . 2  
 3 4

3 2  
 . 3

[ 1 ]

		( )		( )
3	*2000	182		110
4	*2000	182	290	120

290 [ ; Zemex] .

3 4

5 7

II 1 (damper)  
 \* 2000 , \* X45

4

[ 2 ]

		( )		( )
5	*2000	182		151
6	*2000	182		110
7	*2000	182		0

가 가 / \*2000 110/182

, 8 12

2.5mm

12 x 12

(programming)

(I) : 5 , 10 , 163 , 20 , 120 , 10 , 15  
140 15 . (II) : 5 , 15 , 140 , 1  
163 20 .  
5 .  
9 .  
12 .  
가

III \* 2020 , \* X45

[ 3 ]	( )	( )	(%)
8	180	110	0
9	180	110	0.145
10	180	110	0.29
11	180	110	0.43
12	180	110	0.58

(I) , 8 , . 9, 10, 11  
12 .

(II) , 8 9 . 10, 11 12

(57)

1.

2

1

가

3

1

4

4

6.

1 5

,

7.

6 , 가

8.

6 7 , (swirling)

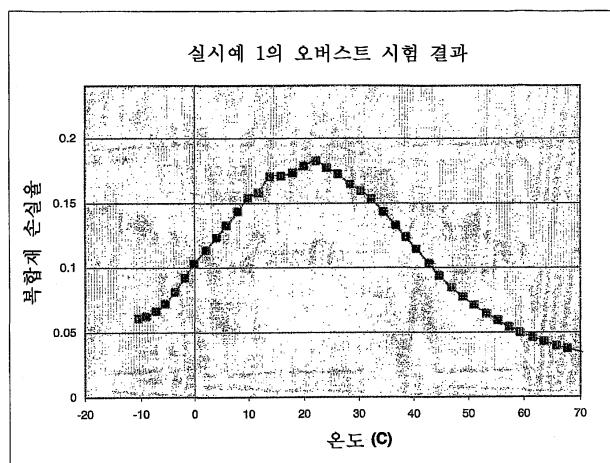
9.

1 5 가

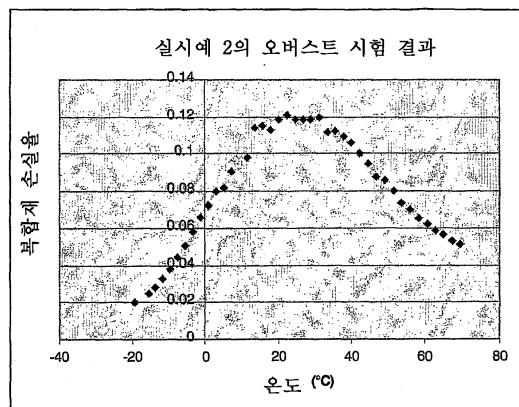
10.

9 , 가

1



2



3

