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(43)

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(21)10 - 2000 - 0082024

(22)2000 12 26

(71)

7 - 11

(72)

108 1701

1 500 - 13 204

103 208

(74)

:

(54)

rylic ester polyol resin) , (ac  
가 , (isocyanate), / / ,  
/ / .  
 , , ,

(loader)

ppm

(volatile organic compound; VOC)

(acrylic ester polyol resin)

(isocyanate),  
(aromatic solvent)/

/ /

, 가

가

가

, 가 ,  
가

, 가

(acrylic ester polyol resin) 20~25 , (isocyanate) 5~10 ,  
 (carbon black) 1.5~2 , (talc) 20~25 , 5~10  
 , 0.5 , 0.6 , (aromatic solvent) 15~25 ,  
 (acetate) 10~14 , (ketone) 3~7 .

(acrylic ester polyol resin) 20% 가  
 , 25% 가 (isocyanate)

(pigment)

1.5~2 가

(carbon black)

(talc) 20~25 가  
(corrosion resistance) 가 5~10 가

가  
0.4 가  
0.6 가

(coating line) (aromatic solvent)  
14 가  
(acetate)  
(spray)  
가 10~15

< >

[ 1 ]

	1	2	1	2	3	
(acrylic ester polyol resin)	18	17	20	23	25	
(iso cyanate)	4	4	5	8	10	
(carbon b lack)	1.0	1.2	1.5	1.8	2.0	
(talc)	19	18	20.4	21	25	
	4	4.5	10	8	5	
	0.3	0.3	0.5	0.6	0.5	
	0.6	0.5	0.6	0.6	0.6	
(aroma tic solvent)	27	28	25	20	15	
(acetate)	18	17	14	10	13	
(ketone)	8.1	8	3	7	3.9	

\* EPA TCLP

\* :

\* : BYK - 163 ( : BYK - CHEMIE )

\* : BENTON 38 ( : NL - CHEM )

\* : ZINE PHOSPHATE ZP - 10 ( : HOECHST)

[ 2]

	1	2	2	3	4	
(%)	46.9	45.5	58.	63	68.1	
(Ns/m <sup>2</sup> )	29	29	30	29	32	
(%;60。 )	11	10	12	13	14	
(h)	8	9	11	12	11	
(h)	35	34	35	35	35	
	100/100	100/100	100/100	100/100	100/100	
(240 )						
(ppm)	73,961	67,822	0.63	1	1	
(ppm)	3,447	28,723	0	0	0	
(ppm)	994	649	0.5	0.3	0.5	
(ppm)	2.5	1.5	0	0	0	

\* ppm .

’ (volatile organic compound;VOC)

· (talc) 가  
(acrylic ester polyol resin) ,  
ppm

가 .

(57)

1.

(acrylic ester polyol resin) 20~25 ,

(isocyanate) 5~10 ,

(carbon black) 1.5~2 , (talc) 20~15 , 5~10 ,

가 1.1 , 28~46

2.

1 , 가 0.5 , 0.6

3.

1 , (aromatic solvent) 15~25 , 10~14 , 3~  
7