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(12) (B1)

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(22) 1999 06 10 (43) 2000 01 25

(30) 9807511 1998 06 15 (FR)

(73) , F - 75008, 14

(72) , , 91570, ,46
, , 07090, ,639

(74)

:

(54) -

a) , - 20 70 %,

b) a) - 20 80 %,

c) 0.5 60 %.

5nm - 100nm 가 , , , -

280nm

400nm

가

UV - B

280nm

320nm

UV - B

320nm

400nm

UV - A

UV - A

UV - A

UV - A

UV - B

가

가

가

UV

가

Pemulen TR1

Goodrich

가

가

가

가

5.5

pH

가

가

가

a) , -

20 70 %, 25 55 %,

b) a)

- 20 80 %, 30 65 %,

c)

0.5 60 %, 10 50 %.

, -

a)

b)

C₁ - C₄

가

가

가

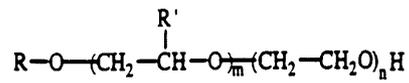
가

c)

6

가

가 :



50 , n m R C₆ - C₃₀ C₈ - C₃₀ R' C₄ - C₄ n 5 150, m 0

C₆ - C₃₀

C₁₈ - C₂₆

가

(C₈ - C₁₃)

가

R'

c)

가

가

- m -

EP - A - 0,173,109

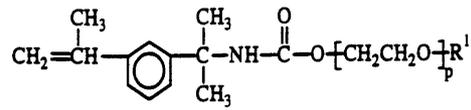
a), b) c)

a)

b)

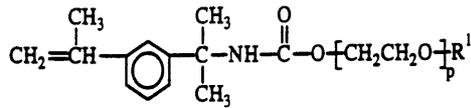
c)

가 :



C₁₃ p' 6 150 , 30 , R² EP - A - 0,173,109 3 C₈ -

a) , b) , c)
가 :



p 6 150 R¹ C₁₈ - C₂₆ , C₂₀ - C₂₄ .
5 % 0.01 10 % , 0.1

가 5nm 100nm 50nm

Vol. 105, 53 - 64) , () , () ,
Cosmetics & Toiletries (1990. 2,

가 ()
가 가

:

- Ikeda 'Sunveil'
- Ikeda 'Sunveil F'
- Tayca ' MT 500 SA ' ' MT 100 SA ' Tioxide ' Tioveil'
- Ishihara ' Tipaque TTO - 55 (B) ' ' Tipaque TTO - 55 (A) ' ' UVT 14/4 '
- Tayca ' MT 100 T, MT 100 TX ' MT 100 Z'
- Tayca ' MT 100 S'
- Tayca ' MT 100 F'
- Tayca ' BR 351 '
- Tayca ' MT 600 SAS ' , ' MT 500 SAS ' ' MT 100 SAS'
- Titan Kogyo ' STT - 30 - DS'
- Ishihara ' Tipaque TTO - 55(S) ' Kemira ' UV Titan M 262'
- Titan Kogyo ' STT - 65 - S'
- Tayca ' MT 150 W'
- Degussa Silices ' T 805 ' TiO₂, 가 25 40nm
가 21nm Cardre ' 70250 Cardre UF TiO₂ Si3 ' TiO₂,
ophbic ' Color Techniques ' TiO₂, USP Hydr
/ TiO₂ .
- Ikeda 'Sunveil A' 가
, Kemira 'M 261'
, Kemira 'M 211'
- 00 B', Degussa Tayca ' MT 500 B' ' MT 6
Tomen ' ITS', Tioxide ' Tioveil AQ' ' PW', Miyoshi Kasei ' UFTR',
Sumitomo ' Ultra Fine ' presperse ' Finex 25' I
keda ' MZO - 25' Sunsmart ' Z - Cote'

Sunsmart 'Z - Cote HP 1'

Rhone - Poulenc

Arnaud 'Nanogard WCD 2002 (FE 45B)', 'Nanogard Iron FE 45 BL AQ', 'Nanogard FE 45R AQ', 'Nanogard WCD 2006(FE 45R)' Mitsubishi 'TY - 220'

Arnand 'Nanogard WCD 2008 (FE 45B FN)', 'Nanogard WCD 2009 (FE 45B 556)', 'Nanogard FE 45 BL 345', 'Nanogard FE 45 BL' BASF

가

0.1 30 %, 0.5 10 %

Sachtleben Chemie GmbH

가 400

nm 'F.F. Hombitan', Lambert Riviere 'Neige' 100 70nm
F Anstead 'FDC Red 40 (37011/90119)', BAS
'Sicovit Brown ZP 3569' 'Sicovit Yellow 10 E 172'

UV - A UV - B

4665 , , - , , p- WO 93/0
가 EP - A - 0,487,404
0.1 30 %

(DHA)

(tanning agent)

pH 가 3.5 11, 5.5 11, 5.5 8.5

0.5 90 %

가 1 8 가 , 6 80

PPG - 36

PPG 가

(PPG) , PPG - 23

가

() 가

D - 65.92g

E - 0.48g

- 가 .

1. 10,000 / Ultra Turrax T25 B가 A .

2. C D .

3. B+A Ultra Turrax T25 10,000 / C+D .

4. E가 가 .

- .

2: -

A - (C₁₂ - C₁₅) 25g

- , , ,

p- - /2- 1g

B - Tayca 'MT 100 T'

/

(15nm) 5g

C - Goodrich 'Pemulen TR1'

가 /(C₁₀ - C₃₀)

0.6g AM

D - 67.8g

E - 0.6g

- 가 .

1. 10,000 / Ultra Turrax T25 B가 A .

2. C가 500 / Moritz Turbo Lab D C 가.

3. B+A Ultra Turrax T25 10,000 / C+D .

4. E가 가 .

3: -

- 4 - t - - 4 ' -

(' Parsol 1789 ' , Roche) 2g

- 33% - 1,4 -

(3 - - 10 - -) 1.5g

- 2 - 2 - - 3,3 -

(' Uvinul N 539 ' , BASF) 10g

- 25% (40 EO)

/ /

3g

-

(' T805 ' , Degussa Silices) 5g

- 10g

- 12 - 0.5g

- 8g

- qs

- qs pH 7

- qs 100g

(57)

1.

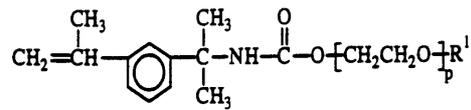
a) , - 20 70
%, 25 55 % ; , ,

b) a) (C₁ - C₄) 20 80 %, 30 6
 5 % - ;

c) 0.5 60
 %, 10 50 % , , .

2.

1 , 가 a) , b) , c) :



p 6 150 R¹ C₁₈ - C₂₆ , C₂₀ - C₂₄ .

3.

1 2 , 가 0.01 10%, 0.1 5 %

4.

1 , 가 5nm 100nm 가 .

5.

1 , .

6.

1 , 가 0.1 20%, 0.5 10 %