

THIXOTROPIC ADDITIVES



MONORAL[®]

As a result of our considerable experience and our co-operation with specialist suppliers of other raw materials and machinery, we offer extensive guidance

Please contact us and we will assist you.



POLY ETHYLENE WAX

(Anti-settling and Anti-hard caking agent)



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COMPANY HISTORY

HSChem is a leading supplier of rheological additives for coatings industry in the world.

Our extensive experience in the field of coating technology and commitment to exceptional quality and customer service has rewarded us with the ISO 9001 certification since 2004.

Our products include anti-sagging agent, anti-settling agent, Defoamer, surface control agent, Metallic orientation agent, matting & slip agents for UV coating and Mar&Abrasion resistance agents for inks and plastic coatings.

HSChem's honest and reliable way of managing good business relationship with our clients has helped us to become a leading rheological producer in the world.

Today, MONORAL is the synonymous with quality additives that dominate the Asian market beyond Korea. MONORAL additives are being stocked and distributed in more than 45 countries.



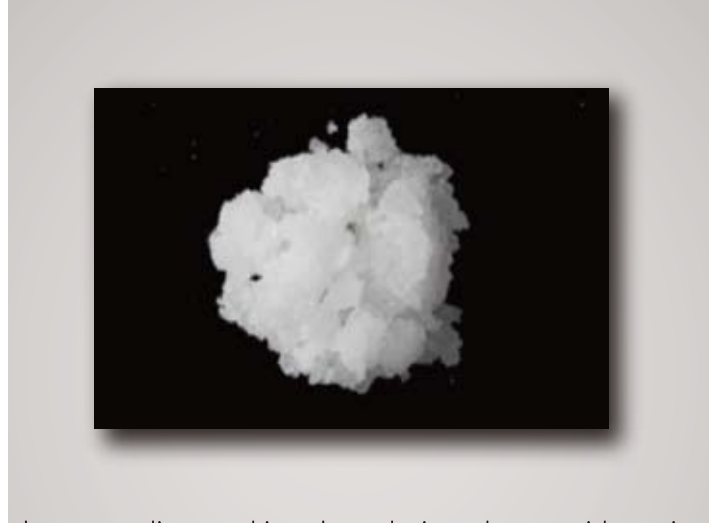
Additives for coatings & Specialty chemicals

1978	Apr	Company founded by Mr. Hae-Gil, Yang Poly-Olefin wax products started Defoamer for waterbased system started
1989	Dec	Poly-Amide wax product's technical development started
1990	Apr	Poly-Amide wax product's business started
1992	Sep	Overseas marketing started
1997	Jul	Company becomes incorporated
2000	Jul	Received quality certification from International Paint (Akzo Nobel-UK)
2001	Jun	Opened new factory and R&D center Restructured as HS Chem Co.,Ltd
2004	Mar	Acquired ISO 9001 Certification
	Mar	Constructed 2nd Plant and started its operation
	Nov	Received an Award for "The Prize of Export Tower" from KITA (1 million USD)
2005	Nov	Received an Award for "The Prize of Export Tower" from KITA (3 million USD)
2007	Nov	Received an Award for "The Prize of Export Tower" from KITA (5 million USD)
2008	Nov	Pre-registration EU-REACH, participated in 'China Coat 2008' (Guangzhou)
2009	Nov	Participated in 'China Coat 2009' (Shanghai)
2010	Nov	Participated in 'China Coat 2010' (Guangzhou)
2011	Nov	Participated in 'China Coat 2011' (Shanghai)
2012	Nov	GRAND PRIZE From GIMPO CITY (Oversea Market Development part)
2013	Nov	The Prize of Export Tower from KITA (10 Million USD)
2014	Mar	Expend Main plant and new Technical Development Center setting up
2016	Aug	3rd Factory plant open
2017	Apr	1st Factory site equipment overhaul & new product develop



WHAT'S POLY ETHYLENE WAX?

Poly Ethylene Wax Form



Polyethylene wax dispersed in xylene designed to provide anti-settling and anti-hard caking with stability of pigment suspension in non-aqueous coatings and applicable to a wide range of solvents to insure compatibility for most of coatings systems.

Poly Ethylene Wax Characters

PE WAX	Anti-settling
Low viscosity	
Anti settling	
Anti-hard caking	
Scratch resistance	
PO-Structure : bubble	
Incorporation : Grand mill base	

Polyethylene Wax Structure



Polyethylene Wax Structure

Electrostatic repulsion

정전기 반발로 침강방지 부여

Theory Of Anti-settling

- This type of flow behaviour is typical of paints that experience a reduction in viscosity when shaken, stirred, or otherwise Mechanically disturbed (ex. Brushing or rolling) but that recover their original rheology in time , eventually reaching their original viscosity. It allows the paint to remain stable (anti-settling action) in a gel state in the container without compromising ease of application.
- EQUATION (Thixotropic Control) : $Q = \eta / r * \zeta$
 η : viscosity r : shear rate ζ : shear stress
- Conception Of Settling : thixotropy \approx Viscosity
- Factor : resin , solvent, pigment

POLY ETHYLENE WAX : Anti-settling and Anti-hard caking agent

MONORAL is special poly ethylene wax systematically dispersed in xylene uniquely designed to provide anti-settling and anti-hard caking with an excellent stability of pigment suspension for non-aqueous coatings

• Poly Ethylene Wax Paste

PRODUCT	SOLID	COMPOSITION	VOLATILE	LEVEL	APPLICATION	CONDITION	REGULATION
MONORAL 60X	24% PASTE	PE	Xylene	1-4%	Heavy duty coating All type enamels	Grind with Mill base	REACH KECL
MONORAL 420-20	20% PASTE	PE	Xylene	1-5%	Heavy duty coating All type enamels	Grind with Mill base	REACH KECL
MONORAL 420XP	20% GEL	PE	Xylene	1-5%	Industrial coating All type enamels	Grind with Mill base	REACH KECL
MONORAL 4000X	40% PASTE	PE	Xylene	1-3%	For stabilizing dispersion & Uniform color All type enamels	Grind with Mill base	REACH KECL
MONORAL 725X	25% PASTE	PE	Xylene	1-5%	Abrasion resistance Anti-scratch & Blocking	Grind with Mill base	REACH KECL

• Poly Ethylene Wax Gel

PRODUCT	SOLID	COMPOSITION	VOLATILE	LEVEL	APPLICATION	CONDITION	REGULATION
MONORAL 2000X	20% GEL	PE	Xylene	1-5%	For stabilizing dispersion & Uniform color All type enamels	Let down Post addition	REACH KECL
MONORAL 2000XP	20% GEL	PE	Xylene	1-5%		Let down Post addition	REACH KECL

Packing Style



17kg/pail can / 170kg/drum

Product image



Transport Information



- Dangerous Goods
- Class 4.1 (Flammable solids)
- UN No : 1325

- 위험물 안전관리법 : 제2류 인화성고체

POLY ETHYLENE WAX : Anti-settling and Anti-hard caking agent

MONORAL is a liquid of multi-purpose rheological Additive consists of fine particles dispersed in xylene to impart excellent anti-settling properties for metallic and plastic coatings system.

• Poly Ethylene Wax Liquid

PRODUCT	SOLID	COMPOSITION	VOLATILE	LEVEL	APPLICATION	CONDITION	REGULATION
MONORAL 410	10% LIQUID	PE	Xylene	1-5%	Auto mobile & Metallic All type enamels	Let down Post addition	REACH KECL
MONORAL 410NX	10% LIQUID	PE	Xylene	1-5%	Plastic coating	Let down Post addition	REACH KECL
MONORAL 410XP	10% LIQUID	PE	Xylene Alcohol	1-5%	Industrial coating Plastic coating	Let down Post addition	REACH KECL
MONORAL 510	10% LIQUID	EAA	Xylene	1-5%	Metallic coating	Let down Post addition	REACH KECL

• Poly Ethylene Wax Matting Agent (UV Coating)

PRODUCT	SOLID	COMPOSITION	VOLATILE	LEVEL	APPLICATION	CONDITION	REGULATION
MONORAL 10P-X	10% LIQUID	PE	Xylene	10-50%	Matting&Anti-scratch	Let down Post addition	KECL
MONORAL 10P-XF	10% LIQUID	PE	Xylene	10-50%	Matting&Anti-scratch	Let down Post addition	KECL
MONORAL 10P-XB	10% LIQUID	PE	Xylene	10-50%	Matting&Anti-scratch	Let down Post addition	KECL
MONORAL 10P-BA	10% LIQUID	PE	N-Butyl Acetate	10-50%	Matting&Anti-scratch	Let down Post addition	KECL
MONORAL 20P-X	20% LIQUID	PE	Xylene	5-30%	Matting&Anti-scratch	Let down Post addition	KECL
MONORAL 20P-BA	20% LIQUID	PE	N-Butyl Acetate	5-30%	Matting&Anti-scratch	Let down Post addition	KECL

Packing Style



15kg/tin can

Product image



Transport Information



- Dangerous Goods
- Class 3 (Flammable liquids)
- UN Number 1263

- 위험물 안전관리법 : 제4류 제2석유류, 인화성 액체

ECO-FRIENDLY POLY ETHYLENE WAX : Anti-settling Agent for Eco-friendly coating system

This product is an ecofriendly version of polyethylene wax systematically dispersed in Low toxic Solvent uniquely designed to provide anti-settling and anti-hard caking with an excellent stability of pigment suspension for solvent base coatings.

• Eco-friendly Polyethylene Wax Paste

PRODUCT	SOLID	COMPOSITION	VOLATILE	LEVEL	APPLICATION	CONDITION	REGULATION
MONORAL 2000NT	20% GEL	PE	Light Aromatic Solvent	1–5%	For stabilizing dispersion & Uniform color All type enamels	Let down Post addition	REACH KECL
MONORAL 4000NT	40% PASTE	PE		1–3%		Let down Post addition	REACH KECL
MONORAL 420NT	20% PASTE	PE		1–5%		Let down Post addition	REACH KECL
MONORAL 420–20BA	20% PASTE	PE	N–Butyl Acetate	1–5%	Wood coating Industrial coating	Let down Post addition	REACH KECL
MONORAL 420–40BA	40% PASTE	PE		1–3%	Industrial coating Heavy duty coating	Let down Post addition	REACH KECL
MONORAL 60BA	24% PASTE	PE		1–4%	Industrial coating Heavy duty coating	Let down Post addition	REACH KECL
MONORAL 60MS	24% PASTE	PE	Mineral Spirits	1–4%	Wood coating Industrial coating	Let down Post addition	REACH KECL
MONORAL 5920XR	20% Gel	Hybrid System	Xylene resin	2–5%	High–solid, non–solvent and high–build system	Grind with Mill base	REACH KECL

• Eco-friendly Polyethylene Wax Liquid

PRODUCT	SOLID	COMPOSITION	VOLATILE	LEVEL	APPLICATION	CONDITION	REGULATION
MONORAL 410NT	10% LIQUID	PE	Light Aromatic Solvent	1–5%	Plastic coating Metallic coating	Let down Post addition	REACH KECL
MONORAL 410BA	10% LIQUID	PE	N–Butyl Acetate	1–5%	Industrial coating Wood coating	Let down Post addition	REACH KECL
MONORAL 411NB	10% LIQUID	PE	Solvent naphtha N–Butyl acetate	2–8%	Plastic coating Metallic coating	Let down Post addition	REACH KECL
MONORAL 412DB	10% LIQUID	PE	De aromatic solvent N–butyl acetate	2–8%	Plastic coating Metallic coating	Let down Post addition	REACH KECL
MONORAL 512NB	10% LIQUID	EAA	Solvent naphtha N–Butyl acetate	2–8%	Plastic coating Metallic coating	Let down Post addition	REACH KECL
MONORAL 710BA	10% LIQUID	PE	N–Butyl Acetate	1–5%	Gravure Ink (Solvent type)	Let down Post addition	REACH KECL

Packing Style



17kg/pail can

Product image



Transport Information



Dangerous Goods

- Class 4.1 (Flammable solids)
- UN No : 1325
- Class 3 (Flammable liquids)
- UN Number 1263

HYBRID WAX : Anti-sagging, Anti-settling and Thickening Agent

MONORAL is a new revolutionized rheological hybrid gel consists of both amide and poly ethylene wax designed to impart excellent anti-settling properties for no-aqueous coatings system. Hybrid wax is a new high concentrated gel type designed for highly efficient control of pigment settling in industrial coatings

• Hybrid Wax

PRODUCT	SOLID	COMPOSITION	VOLATILE	LEVEL	APPLICATION	CONDITION	REGULATION
MONORAL 5405	5% Gel	Hybrid System	Xylene ET, IPA	4-6%	Metallic coating All type enamels	Let down Post addition	REACH KECL
MONORAL 5407S	7% Gel		Xylene ET, IPA	3-8%		Let down Post addition	REACH KECL
MONORAL 5410	10% Gel		Xylene ET, IPA	3-8%		Let down Post addition	REACH KECL
MONORAL 5720	20% Gel		Xylene	1-5%	Urethane base Floor coating	Let down Post addition	REACH KECL

• Eco-friendly Hybrid Wax

PRODUCT	SOLID	COMPOSITION	VOLATILE	LEVEL	APPLICATION	CONDITION	REGULATION
MONORAL 5505	5% Gel	Hybrid System	Solvesso100 ET, IPA	4-6%	Metallic coating All type enamels	Let down Post addition	REACH KECL
MONORAL 5507S	7% Gel		Solvesso100 ET, IPA	3-8%		Let down Post addition	REACH KECL
MONORAL 5510	10% Gel		Solvesso100 ET, IPA	3-8%		Let down Post addition	REACH KECL
MONORAL 5610	10% Gel		Solvesso100 ET	3-8%		Let down Post addition	REACH KECL
MONORAL 5820	20% Gel		Solvesso100	1-5%	Urethane base Floor coating	Let down Post addition	REACH KECL

Packing Style



17kg/pail can

Product image



Transport Information



- Dangerous Goods
- Class 3 (Flammable liquids)
- UN Number 1263

- 위험물 안전관리법 : 제4류 제2석유류, 인화성 액체

Defoamer (Water Base) 소포제 (수성용)

본 소포제는 생산공정상에 거품을 효과적으로 제거 및 억제 해 줍니다. 소량으로 강력한 소포 효과 및 지속력이 우수하며 또한 넓고 다양한 분야에서 기포를 파괴시키거나 억제하는 데 있어 뛰어난 효과를 나타냅니다.

• Silicone Type Defoamer (실리콘계 수성 소포제)

PRODUCT	SOLID	COMPOSITION	VOLATILE	LEVEL	APPLICATION	SYSTEM
MONORAL SDW110	12% Liquid	Polyether siloxane copolymer	Water	0.1~1.0%	Heavy duty coating Architectural coating Industrial coating	Water base system Silicon type
MONORAL SDW120	24% Liquid	Polyether siloxane copolymer	Water	0.1~1.0%	Heavy duty coating Architectural coating Industrial coating	Water base system Silicon type

• Non-Silicone Type Defoamer (비실리콘계 수성 소포제)

PRODUCT	SOLID	COMPOSITION	VOLATILE	LEVEL	APPLICATION	SYSTEM
DEFOAMER EDW	100% Liquid	Mineral spirits	Hydro Carbon Oil	0.2~0.5%	Industrial coating	Water base system Silicon free
DEFOAMER EDW-707	100% Liquid	Mineral spirits	Hydro Carbon Oil	0.2~0.5%	Architectural coating	Water base system Silicon free
DEFOAMER EDW-709	100% Liquid	Mineral spirits	Hydro Carbon Oil	0.2~0.5%	Architectural coating	Water base system Silicon free
DEFOAMER EDW-808	100% Liquid	Mineral spirits	Hydro Carbon Oil	0.2~0.5%	Architectural coating	Water base system Silicon free
DEFOAMER EDW-809	100% Liquid	Mineral spirits	Hydro Carbon Oil	0.2~0.5%	Architectural coating	Water base system Silicon free

Defoamer (Solvent Base) 소포제 (유성용)

본 제품은 유성도로 시스템에 광범위하게 사용되는 범용 실리콘/비실리콘 소포제입니다.

특히 기능성 파포 조성물과 유기용제로 이루어진 소포제로 특히 파포성과 역포성이 우수한 소포제입니다.

• Silicon Type Defoamer (실리콘계 유성 소포제)

PRODUCT	SOLID	COMPOSITION	VOLATILE	LEVEL	APPLICATION	SYSTEM
MONORAL DS-101	1~2% Liquid	Poly siloxane solution	Xylene, PMA, EA, BA	0.1~1.0%	Silicon Type Defoamer	Solvent base system
MONORAL DS-106	1~2% Liquid	Poly dimethyl siloxane	DIBK/BC/Anone	0.2~1.0%	Silicon Type Defoamer	Solvent base system
MONORAL DS-106H	1~2% Liquid	Poly dimethyl siloxane	DIBK/BC/Anone	0.2~1.0%	Silicon Type Defoamer	Solvent base system

• Functional Defoamer (기능성 유성 소포제)

PRODUCT	SOLID	COMPOSITION	VOLATILE	LEVEL	APPLICATION	SYSTEM
MONORAL DX100	99%	Olefin based oligomer	N/A	0.01~0.3%	Eco friendly Solvent free	Heat&Chemical resistance

MONORAL SELECTION GUIDE

APPLICATION	PRODUCT	PA RHEOLOGICAL						PE THIXOTROPIC ADDITIVES											
		5500 3300	NT 3300	BA 3400	8800	SD / ED	A600-20M	A670-20M	60X 420-20	2000X	4000X	510 410	5405 5410	5505 5510	2000NT	420-20BA	410NT	410BA	
ARCHITECTURALS	ALKYD	○	○	●		○	●	●	●	●	○	●	●	●	●	●	●	●	
	VLNYL	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	
	ACRYLIC	●	●	○		●	○	●	●	●	●	●	●	●	●	●	●	○	
	SILICONE																		
	FLUORO								○	○	○			○					
	ACRYLIC/ URETHANE	●	●	●		●	○	●	●	●	●	●	●	●	●	●	●	●	●
	N.C.	●	●	○		●			●	●	●	●	●	●	●	●	●	●	●
BAKING ENAMELS	ALKYD/ MELAMINE					●			●	●	●	●	●	●	●	●	●	●	
	ACRYLIC/ MELAMINE					●			●	●	●	●	●	●	●	●	●	●	
	POLYESTER MELAMINE					●			●	●	●	●	●	●	●	●	●	●	
	EPOXY / UR					●			●	●	●	●	●	●	●	●	●	●	
HEAVYDUTY PAINTS	CHORINATE RUBBER	●	●	●	●	○	●	●	●	●				●	●				
	U.P.E.		○	○	○				●	●	●								
	ACRYLIC/ URETHANE	●	●	●	●	○	●	●	●	●				●	●				
	POLYESTER URETHANE	●	●	●	●	○	○	●	●	●				●	●				
	2K EPOXY	●	●	●	●	○	●	●	●	●				●	●				
	COAL TAR EPOXY	●	●	●	●	○	●	●	●	●				●	●				
WOOD COATING	U.P.E.	○	○	○					●	●	●	○	●	●	○	●	●	○	
	AMINO/ ALKYD(ACI)			○		●	○		●	●	●	●	●	●	●	●	●	●	
	ACRYLIC/ URETHANE	○	●	●		●			●	●	●	●	●	●	●	●	●	●	
	POLYESTER URETHANE	○	●	●		●			●	●	●	●	●	●	●	●	●	●	
	EPOXY	●	●	●		●			●	●	●	○	●	●	●	●	●	●	
FLOOR	URETHANE	○	○	○					●	●	●	○	●	●	●	●	●	○	

● : EXCELLENT ○ : GOOD

PRODUCT APPLICATION RANGE

Industrial Coatings



60X, 420-20

- Heavy duty Coating, All type Enamels

2000X

- General Industrial Coating, floor coating

2000XP

- PCM coating

5720, 5820

- Urethane base floor coating

EDW-707, EDW-808

- Water based Defoamer

DS-106H

- Solvent based Defoamer

Automobile & Car Refinish Coatings



5407S (Hybrid wax)

- UV, Metallic and Plastic
- All type enamels

5507S (None toxic type)

- UV, Metallic and Plastic
- All type enamels

Metallic, UV & Plastic Coatings



410 , 510 (Liquid type)

- Metallic coatings

5405, 5505 (Hybrid Wax)

- UV, Metallic and Plastic
- All type enamels

10P-X, 10P-XF, 10P-XB, 10P-BA

- Matting Agent (UV Coating)

Wood stain Coatings



2000X

- EPO, UR, ALK and All type enamels

2000NT

- Eco-friendly All type enamels

20P-X, 20P-BA

- Matting & Slip

Technical Info. No. 1

Polyethylene Wax Paste

• Polyethylene Wax Paste Anti-Settling Test

Test Conditions

▪ Test Formulation

Urethane Base Paint	Content
Urethane Resin	36.8%
Pigment	62.0%
Additive	1.2%

- Urethane Base Paint 36.8% + Additive (MONORAL 60X) 1.2%+ Pigment 62% (Total weight 300g)
- Mixing speed and time : 1,800rpm / 1hour
- Storage in 1 week at 60 °C

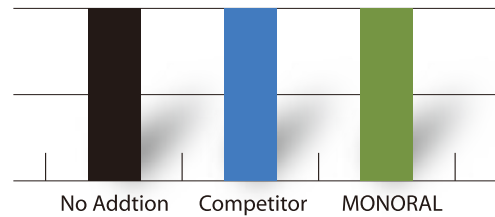
▪ Test Equipment

- Brookfield KU-2 Viscometer
- Disk impeller φ4cm dissolver

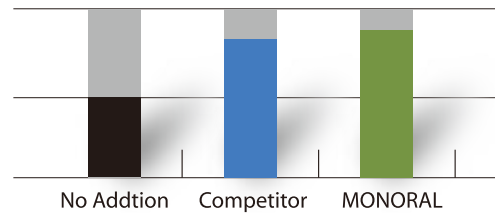
• Anti-settling performance Test Result (우레탄 도료 침전테스트)



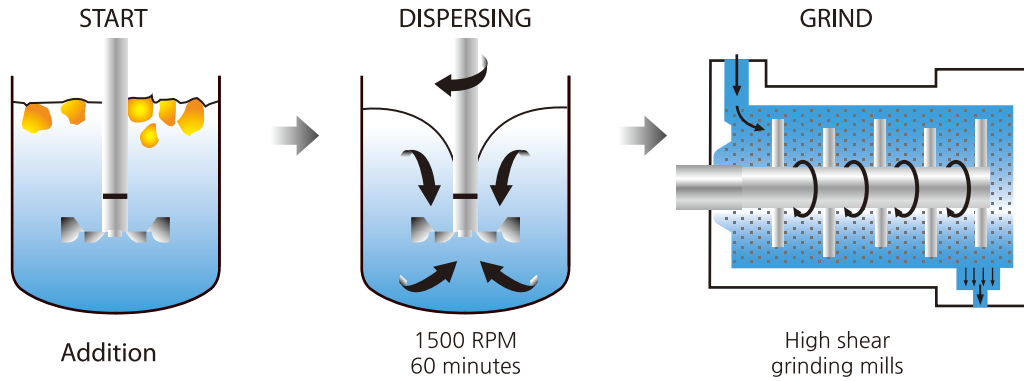
Initial stage (초기)



After 1 week (1주일후)



Polyethylene Wax Paste Incorporation



- Generally, it cannot be dispersed with standard mixing equipment
- Use high shear grinding mills such as triple-roll mill, ball mill and sand mill bases for dispersing.

- 양호한 입도가 필요시 샌드밀, 볼밀, 3롤밀과 같은 분산설비로 분산과정을 해야 합니다.
- 교반/분산 시 안료와 함께 분산하는 것이 양호한 입도를 얻을 수 있습니다

Caution

- Generally, PE hard paste type must be ground with mill base
- For optimum use, it should be dispersed at a temperature exceeding over 45°C (113°F)
- If large portion of talc pigments are required (for heavy duty system), then use high speed dissolver; preferably Cowles type of dissolver instead of using conventional impeller.

- 샌드밀과 같은 분산설비로 반드시 분산과정을 해야 합니다
- 분산시의 온도는 넓은 온도범위(20~70℃)에서 사용 할 수 있으며, 최적분산 온도는 45도 입니다
- 예외로 중방식 도료 또는 체질 안료가 많이 들어가는 도료시스템 에서는 고속 교반으로도 가능하나 꼭 입도 테스트 후 사용하시기 바랍니다.
하지만 상용용 도료와 같이 양호한 입도 요구 시에는 고속교반은 적합하지 않음

Technical Info. No. 2

Hybrid Wax

• Hybrid Wax Anti-Settling Test

Test Conditions

▪ Test Formulation

Acrylic Resin	Content
Acrylic Resin Beads (BR-116)*1	54%
Xylene	46%

Acrylic metallic base paint	Content
Aluminum Paste*2	10%
Acrylic resin	50%
Xylene	40%

1. Acrylic Resin Beads (BR-116)-Mitsubish Rayon
2. Aluminum Paste (Dh100, 44 μ m, NV : 65%)-Daihan Eunpakgy

- Acrylic metallic base Paint 92% + Additive (MONORAL 5505) 8% (Total weight 200g)
- Mixing speed and time : 800rpm / 10min
- Storage in 1 week at 60 $^{\circ}$ C

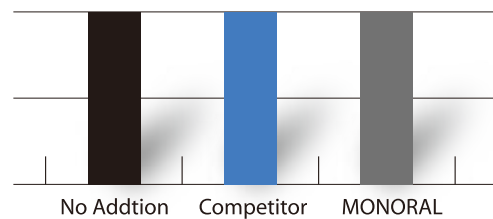
▪ Test Equipment

- Brookfield DV-II + Pro (62) (25 $^{\circ}$ C)
- Propeller Impellers No 2 (size 50mm)
- Thixotropic Factor : 6rpm / 60rpm

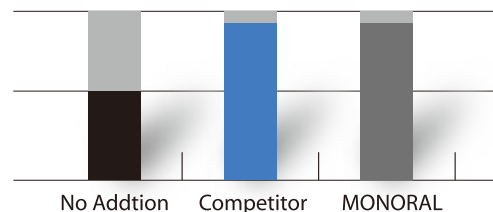
• Anti-settling performance Test Result (아크릴 메탈릭 도료 침전테스트)



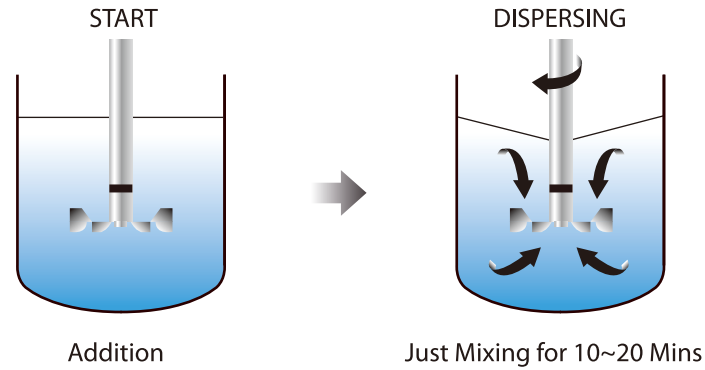
Initial stage
(초기)



After 1 week
(1주일후)



Polyethylene Wax Liquid Incorporation



- Just mixing with dissolver
(It does not need grinding with sand mill)
- Incorporation temperature : 10°C ~ 70°C
- Recommend Speed : 500 rpm/10~20 min

- 전 첨가와 후 첨가 가능
- 분산시 넓은 온도범위 : 10~70°C
(참고로 최적분산 온도는 45도 입니다.)
- 추천 고속 교반속도 : 500 rpm/10~20분

Caution

- Post-addition is ideal for metallic enamels and flat Enamels,
especially when it's not processed with high shear grinding machines
- Basically apply post addition method for incorporation using standard type of dissolver.

- 공정 중 저속 교반/믹싱 만으로 왁스를 분산하는 것이 부족할 수 있습니다.
- 상도용 도료와 같은 매우 좋은 입도를 요구 시에는 반드시 고속 교반 하여야, 좋은 입도를 얻을수 있습니다.
- 도료배합이나 분산조건/온도에 따라 달라질 수 있으니, 반드시 테스트 후 사용 하십시오
- 기재된 정보는 사용시 권장사항으로 추천하지만, 보증하는 것은 아니므로 충분히 실험한 후 사용하십시오.

Shipment Info.



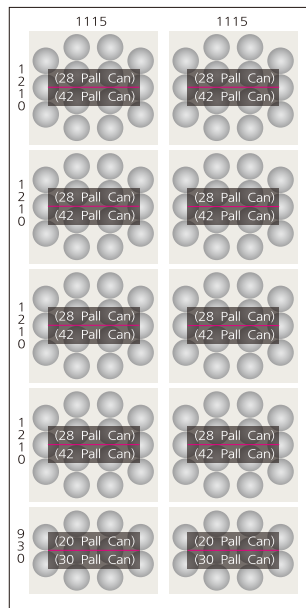
Product : Polyethylene Wax (Paste) / Hybrid Wax Series

Packing Style



17kg/pail can

Packing on 20" full container



Description

Total 660 cans in 20" FCL

8 Pallet X 42 cans = 336 cans

8 Pallet X 28 cans = 224 cans

2 Pallet X 30 cans = 60 cans

2 Pallet X 20 cans = 40 cans

Total 396 cans in 20" HCL

8 Pallet X 42 cans = 336 cans

2 Pallet X 30 cans = 60 cans

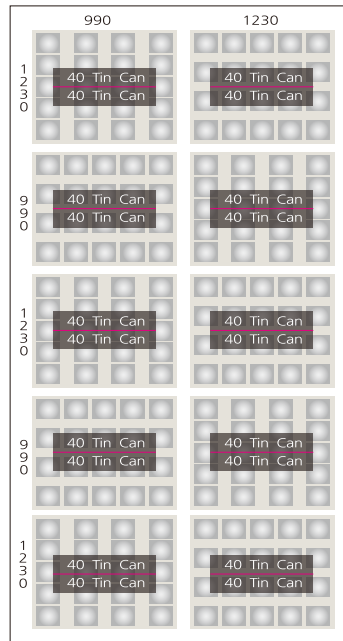
Product : Polyethylene Wax (Liquid) Series

Packing Style



15kg/Tin can

Packing on 20" full container



Description

Total 800 cans in 20" FCL

20 Pallet X 40 cans = 800 cans

Total 400 cans in 20" HCL

10 Pallet X 40 cans = 400 cans

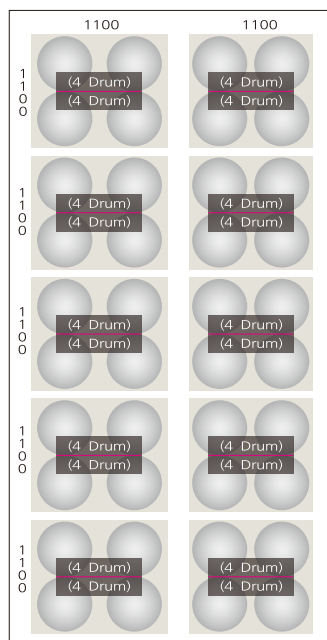
Product : Polyethylene Wax (Paste) Series

Packing Style



170kg/drum

Packing on 20" full container



Description

Total 80 drums in 20" FCL

20 Pallet X 4 drums = 80 drums

Total 40 drums in 20" HCL

10 Pallet X 4 drums = 40 drums



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