



Surface Treatment Technology

EXPERTISE IN COLORS

Dyes, Pigments,
Pigment dispersions, Pearls,
Surface treatments applied on
pigments and pearls...

As a primary manufacturer of certified dyes and pigments and enjoying the successful color expertise of Sensient group, we offer globally compliant colors, specialty blending, surface treatments, specialty milling and pigments dispersions to satisfy your most demanding individual requirements.

Sensient Cosmetic Technologies

is committed to developing, producing and marketing quality ingredients and colorants to the cosmetics industry. At our global production facilities, we manufacture the finest colorants and functional cosmetic ingredients for Make-up, Skin care, Hair care, Personal hygiene, Oral care, Fragrance.

EXPERTISE IN COLORS

Consistent quality

All manufactured batches undergo rigorous testing to guarantee consistency, purity and reliability, to ensure our products meet our customers' strict demands.

Regulatory support

With our knowledge of cosmetic ingredient regulations, use limits and labelling requirements, we assist customers with manufacturing and product development needs.

Technical expertise and Application Laboratories

Our well-equipped technical service laboratories are staffed by experienced cosmetic technologists available to assist you in all technical needs.

We promise efficient, accurate and innovative solutions to your most pressing development questions.

Customer service

Our customer department provides fast and courteous responses to pricing, availability and order tracking.

We constantly stand by our customers' side with :

- Innovation
- Technical expertise
- Formulation development

Contact our sales team to enjoy our innovations and high performance products.

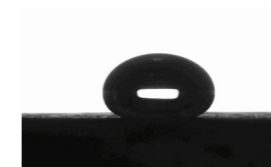
For more details about the products or technical support, please contact our sales department :
France, 7-9 rue de l'Industrie, 95310 Saint Ouen L'Aumône, Phone : 33 1 34 48 57 00, Fax : 33 1 34 64 44 40
USA, 107, Wade Avenue, South Plainfield, NJ07080-1311, Phone : 1 908 757 4500, Fax : 1 908 757 3170
www.sensient-cosmetics.com - email : contact@sensient-cosmetics.com

Surface treatment technology

Selection of the proper surface treatment is critical in color cosmetic formulations. Sensient Cosmetic Technologies surface treatments enable ease of formulation with improved stability while improving pigment performance, wearability and feel. Sensient surface treatments are applied through a proprietary particle manipulation technology ensuring the highest degree of particle coverage and optimized consistency. A wide range of treatments produces a variety of choices in formulating color cosmetics with enhanced product attributes.

Surface Treatment lines	INCI	Main Properties	Comments
AS Alkyl Silane	Triethoxycaprylsilane	Excellent hydrophobicity Easy dispersibility in oils and silicones Improved adhesion & wear resistance Allows fluid and bright high solid dispersion	
ADT-C Advanced Dispersion Technology	Isopropyl Titanium Triisostearate Bis-PEG-15 Dimethicone / IPDI Copolymer PEG-2 Soyamine	Excellent hydrophobicity Allows very high pigment load in liquid W/O emulsions Consistent color dispersion Increased affinity and adhesion to the skin and the hair	
HLC Hydrogenated Lecithin	Hydrogenated Lecithin	Good hydrophobicity Easy dispersibility in oils - No grinding Smooth and lubricious feel Excellent stability in emulsions	ECOCERT
GCA Glutamate Cystine Arginine	Sodium Cocoyl Glutamate L-Cystine Lauroyl Arginine	Natural Triple amino-acid treatment. Slightly hydrophobic Excellent affinity for keratin & skin Easy-dispersible, grinding-free	ECOCERT
NLL N-Lauroyl L-Lysine	Lauroyl Lysine	Excellent hydrophobicity Good dispersibility in oils Lower oil absorption compared to untreated powder Provides a creamy and soft skin feel	ECOCERT
NFW ROSE CF Natural Flower Wax	Blend based on Natural waxes	Good hydrophobicity ; water resistance Soft and creamy skin feel Dry greasy touch Allows for a reduced binder content	ECOCERT
COVASIL 4.05 Silicone	Dimethicone Trimethylsiloxysilicate	Good hydrophobicity Hybrid coating for lamellar particles only Silky feel No hydrogen potential	
FHP Fluoro High Purity	Ammonium C6-16 Perfluoroalkylethyl Phosphate	Both hydrophobic and lipophobic properties Easy dispersibility in silicone oils Suitable for long lasting make up PFOA-free & PFOS-free*	
SGP Sodium Glycerophosphate	Sodium Glycerophosphate	Natural, hydrophilic. Easy-dispersible, grinding-free Moisturizing & water-retention	ECOCERT
AQ Dimethicone Copolyol	Dimethicone Copolyol	Easy-dispersible in water based system Improved dispersion Long-lasting water based make-up	

* [PFOA] & [PFOS] : below the detection limit based on the Sensient's method 10-224.



Treated powder

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AS

Alkyl Silane

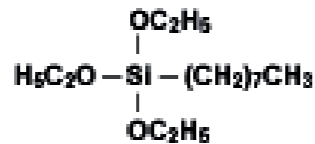
Composition

INCI name : Triethoxycaprylsilane

CAS No. : 2943-75-1

EINECS No. : 220-941-2

Approved for EU, USA, Japan and China.



Key Features

- Shear resistant coating
- Chemically bound

Key Properties

- ▶ Excellent hydrophobicity
- ▶ Easy dispersibility in oils and silicones (at over 50% solids)
- ▶ Allows fluid and bright high solid dispersion
- ▶ Improved adhesion & wear resistance



Main Applications

1. W/O and W/Si emulsions
2. Powders : Pressed or loose powders & Two-way cake
3. Mousse
4. Waterproof mascaras
5. Long lasting lipstick / lipgloss
6. Cream in powder form.

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.



Product Line

Mineral pigments

UNIPURE YELLOW LC 182 AS-EM
UNIPURE RED LC 381 AS-EM
UNIPURE RED LC 386 AS-EM
UNIPURE VIOLET LC 585 AS
UNIPURE PINK LC 589 AS
UNIPURE BLUE LC 680 AS
UNIPURE GREEN LC 788 AS
UNIPURE GREEN LC 789 CF AS
UNIPURE BLACK LC 989 AS-EM
UNIPURE TRIPLE BLACK LC990 AS-EM
UNIPURE WHITE LC 987 AS-EM
TITANIUM DIOXIDE AS R3435
TITANIUM DIOXIDE AS R3442

Organic pigments

UNIPURE YELLOW LC 125 AS
UNIPURE RED LC 304 AS
UNIPURE RED LC 3075 AS
UNIPURE BLUE LC 621 AS

Fillers

MICA 8 AS R0433
SERICITE AS R0434
TALC AS R0435

Pearls

COVAPEARL RICH GOLD 230 AS
COVAPEARL DORE GOLD 232 AS
COVAPEARL LIGHT DORE 235 AS
COVAPEARL ANTIQUE 236 AS
COVAPEARL SPARKLING GOLD 238 AS
COVAPEARL ANTIQUE SILVER 239 AS
COVAPEARL FIRE RED 333 AS
COVAPEARL RED 339 AS
COVAPEARL PINK 433 AS
COVAPEARL PURE CARMIN 438 AS
COVAPEARL BLUE 635 AS
COVAPEARL DARK BLUE 637 AS
COVAPEARL OCEAN GREEN 736 AS
COVAPEARL GREEN 737 AS
COVAPEARL LIGHT BROWN 830 AS
COVAPEARL BROWN 838 AS
COVAPEARL SATIN 931 AS
COVAPEARL BRIGHT 933 AS
COVAPEARL SPARKLING SILVER 937 AS
COVAPEARL SILVER 939 AS

Synthetic pearls

COVAPEARL STAR GOLD 2302 AS
COVAPEARL STAR LIGHT DORE 2335 AS
COVAPEARL STAR DORE 2375 AS
COVAPEARL STAR COPPER 3332 AS
COVAPEARL STAR LIGHT RED 3339 AS
COVAPEARL STAR RED 3379 AS
COVAPEARL STAR LIGHT VIOLET 5331 AS
COVAPEARL STAR VIOLET 5371 AS
COVAPEARL STAR LIGHT BLUE 6335 AS
COVAPEARL STAR BLUE 6375 AS
COVAPEARL STAR LIGHT GREEN 7337 AS
COVAPEARL STAR GREEN 7377 AS
COVAPEARL STAR BRONZE 8302 AS
COVAPEARL STAR BRIGHT 9332 AS
COVAPEARL STAR SILVER 9372 AS

Cosmetic ingredients

MATLAKE OPA AS
OXYDE DE ZINC MICROPUR AS

ADT-C

Advanced Dispersion Technology

Composition

INCI name : Isopropyl Titanium Triisostearate (and) Bis-PEG-15 Dimethicone / IPDI

Copolymer (and) PEG-2 Soyamine

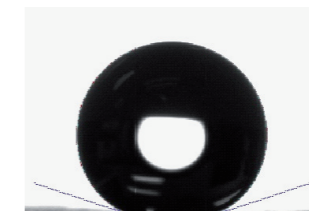
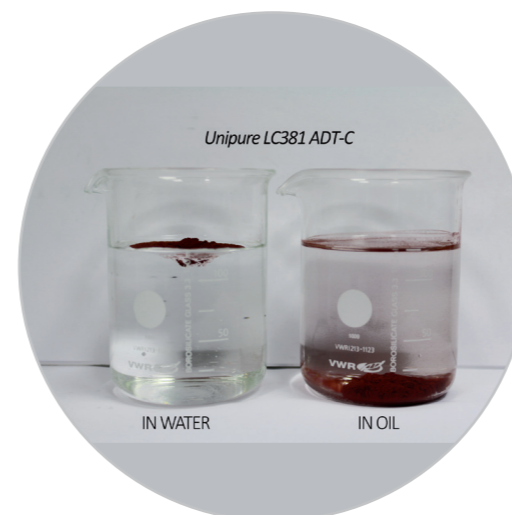
CAS No. : 61417-49-0, 222416-17-3, 61791-24-0, 4098-71-9

EINECS No. : 262-774-8, 223-861-6,---

Approved for EU, USA, China, Japan.

Key Properties

- ▶ Excellent hydrophobicity
- ▶ Allows very high pigment load in liquid W/O emulsions
- ▶ Consistent color dispersion
- ▶ Increased affinity and adhesion to the skin and the hair
- ▶ Higher gloss in lip color application



Main Applications

1. W/O and W/Si emulsions
2. Powders : Pressed or loose powders & Two-way cake
3. Lip color
4. Mascaras

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.



Product Line

Mineral pigments

UNIPURE YELLOW LC182 ADT-C
UNIPURE BLACK LC989 ADT-C
UNIPURE WHITE LC987 ADT-C
UNIPURE RED LC381 ADT-C

Organic pigments

UNIPURE RED LC3075 ADT-C

Fillers

MICA ADT-C
TALC ADT-C



HLC

Hydrogenated Lecithin

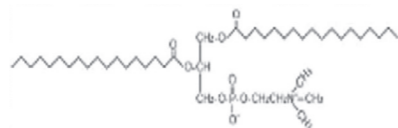
Composition

INCI : Hydrogenated Lecithin

CAS No. : 92128-87-5

EINECS No. : 295-786-7

Approved for EU, USA, Japan and China.



Key Features

- Shear resistant coating
- Chemically deposited
- Ecocert standard compliant

Key Properties

- ▶ Good hydrophobicity
- ▶ Easy dispersibility in oils - No grinding or milling
- ▶ Excellent affinity for the skin due to its amino acid nature
- ▶ Imparts a smooth, lubricious and creamiest feel
- ▶ Imparts excellent stability in emulsion formulations



Main Applications

1. W/O & W/SI emulsions
2. Powders : Pressed or loose powders
3. Two-way cake
4. Anhydrous products
5. Skin care & Natural concept.

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

Product Line

Mineral pigments

UNIPURE RED LC 381 HLC
UNIPURE BLACK LC 989 HLC
UNIPURE WHITE LC 981 HLC
UNIPURE YELLOW LC 182 HLC

Fillers

SERICITE HLC
TALC HLC
SUBMICA FL HLC

Pearls

COVAPEARL DORE GOLD 232 HLC
COVAPEARL LIGHT DORE 235 HLC
COVAPEARL SPARKLING GOLD 238 HLC
COVAPEARL SILVER ANTIQUE 239 HLC
COVAPEARL FIRE RED 333 HLC
COVAPEARL RED 339 HLC
COVAPEARL PINK 433 HLC
COVAPEARL BROWN 838 HLC
COVAPEARL SATIN 931 HLC
COVAPEARL BRIGHT 933 HLC
COVAPEARL SPARKLING SILVER 937 HLC
COVAPEARL SILVER 939 HLC



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GCA

Glutamate Cystine Arginine

Composition

INCI name : Sodium Cocoyl Glutamate (and) L-Cystine (and) Lauroyl Arginine

CAS No. : 68187-32-6 / 56-89-3 / 42492-22-8

EINECS No. : 269-087-2 / 200-296-3 / 255-851-2

Approved for EU, USA, Japan and China.

Key Features

- Revolutionary concept of natural hair coloring formulation
- Optimized balance of triple amino-acid treatment to bring superior affinity to keratin with long lasting result compared to non treated pigment
- Ecocert compliant

Key Properties

- ▶ Easy dispersible in oil - Milling free solution
- ▶ Semi-permanent hair coloring application
- ▶ Make up application
- ▶ Patented technology



Main Applications

1. Hair Color
2. Make-up

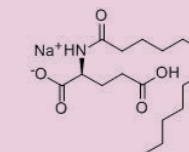
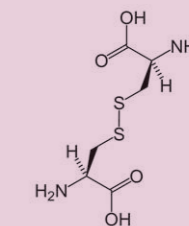
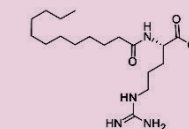
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Product Line

Mineral pigments

UNIPURE YELLOW LC 182 GCA
UNIPURE RED LC 381 GCA
UNIPURE TRIPLE BLACK LC 990 GCA
UNIPURE WHITE LC 987 GCA



SENSIENT
COSMETIC TECHNOLOGIES

NLL

N-Lauroyl L-Lysine

Composition

INCI name : Lauroyl Lysine
CAS No. : 52315-75-0
EINECS No. : 257-843-4
Approved for EU, USA, Japan and China.

Key Features

- Shear resistant coating
- Mechanically deposited
- Natural surface treatment

Key Properties

- ▶ Excellent hydrophobicity
- ▶ Good dispersibility in oils
- ▶ Lower oil absorption compared to untreated powder
- ▶ Provides a creamy and soft skin feel



Main Applications

1. Powders : Pressed or loose powders & Two-way cake
2. Face and eyes make-up

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

Product Line

Fillers
SERICITE M12 NLL
TALC L12 NLL



NFW Rose CF

Natural Rose Flower Wax - Candelilla-Free grade

Composition

INCI : Rosa Centifolia Flower Extract (and) Rosa Damascena Flower Wax (and) Cera Alba
CAS No. : 84604-1206, 90106-38-0, 8006-44-4, 8006-40-4
EINECS No. : 283-289-8, 290-260-3, 232-383-7, 232-347-0
Approved for EU, USA, Japan and China.

Key Features

- Shear resistant coating
- Mechanically deposited
- Ecocert standard compliant

Key Properties

- ▶ Good hydrophobicity
- ▶ Good dispersibility in oil phase
- ▶ Lower oil absorption
- ▶ Water resistance
- ▶ Soft and creamy skin feel
- ▶ Allows a reduced binder content



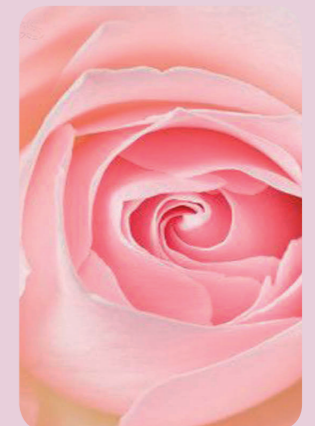
Main Applications

1. Natural powders
2. Natural anhydrous products
3. W/O emulsions

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

Product Line

Mineral pigments
UNIPURE YELLOW LC182 NFW R CF
UNIPURE RED LC381 NFW R CF
UNIPURE BLACK LC989 NFW R CF
UNIPURE WHITE LC981 NFW R CF



Covasil 4.05

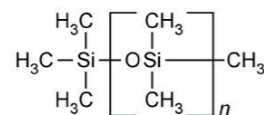
Hybrid Silicone Coating

Composition

INCI name : Dimethicone (and) Trimethylsiloxysilicate
CAS No. : 9006-65-9, 68988-56-7

EINECS No. : ---, ---

Approved for EU, USA, Japan and China.

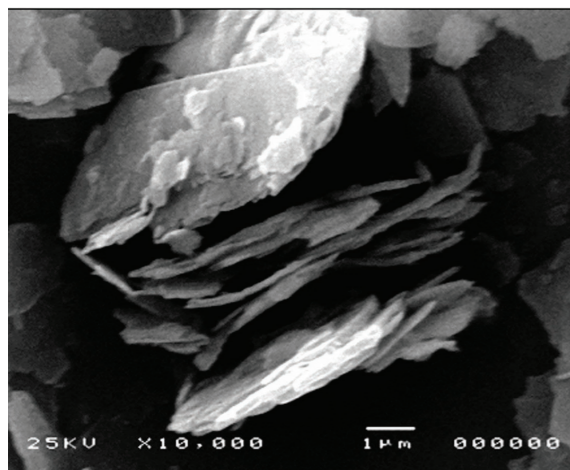


Key Features

- Shear resistant coating
- Mechanically deposited
- Hybrid coating for lamellar particles only

Key Properties

- ▶ Good hydrophobicity
- ▶ Hybrid coating for lamellar particles only
- ▶ Silky feel
- ▶ No hydrogen potential



Main Applications

1. Powders : Pressed or loose powders & Two-way cake
2. Two-way cake

Product Line

Fillers

MICA COVASIL 4.05
SERICA 5 COVASIL 4.05
TALC COVASIL 4.05

FHP

Fluoro High Purity

Composition

INCI name : Ammonium C6-16 Perfluoroalkylethyl Phosphate

CAS No. : 65530-71-4

EINECS No. : Polymer

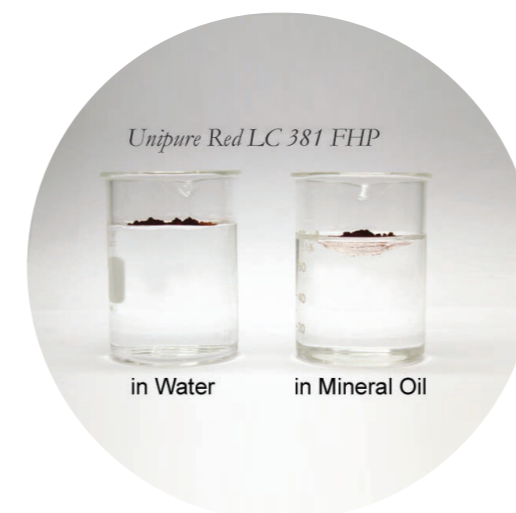
Approved for EU, USA, Japan and China.

Key Features

- Shear resistant coating
- Chemically deposited
- PFOA-free & PFOS-free* : meet the goals of the U.S. Environmental Protection Agency 2010/15 PFOA Stewardship program.

Key Properties

- ▶ Both hydrophobic and lipophobic properties
- ▶ Good resistance to acid and alkali conditions
- ▶ Soft feeling
- ▶ Easy dispersibility in silicone oils
- ▶ Suitable for long lasting make up resilient to perspiration and sebum



Main Applications

1. W/O and W/Si emulsions
2. Powders : Pressed or loose powders & Two-way cake
3. Long lasting lipsticks
4. Anhydrous products
5. Cream in powder form.

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

* [PFOA] & [PFOS] : below the detection limit based on the Sensient's method 10-224.

Product Line

Mineral pigments

UNIPURE YELLOW LC 188 FHP
UNIPURE RED LC 388 FHP
UNIPURE BLACK LC 988 FHP
UNIPURE WHITE LC 981 FHP
UNIPURE WHITE LC 987 FHP

Fillers

MICA 8 FHP
SERICITE FHP
TALC FHP

Organic pigments

UNIPURE RED LC 302 FHP

Cosmetic ingredients

PW FHP
ALUMINA FHP-EM



SGP

Sodium Glycerophosphate

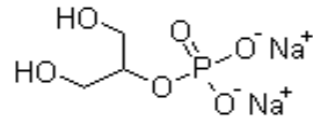
Composition

INCI : Sodium glycerophosphate

CAS No. : 1334-74-3

EINECS No. : 1,2,3-Propanetriol mono(dihydrogen phosphate) disodium salt

Approved for EU, USA & Japan



Key Features

- Natural origin
- Ecocert compliant in make-up products only
- Patented technology

Key Properties

- ▶ Easy dispersibility - Milling free
- ▶ Easy shade adjustment
- ▶ Hydrophilic properties - Higher affinity for the water phase
- ▶ Enhanced stability in water gels or O/W emulsions
- ▶ Moisturizing - Water retention

Non treated red iron oxide

Unipure Red LC 381 SGP



Main Applications

1. O/W emulsions
2. Water based gels
3. Make-up (BB creams...)
4. Skin care

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

Product Line

Mineral pigments

UNIPURE YELLOW LC 182 SGP

UNIPURE RED LC 381 SGP

UNIPURE BLACK LC 989 SGP

UNIPURE WHITE LC 981 SGP



AQ

Dimethicone Copolyol

Composition

INCI : PEG-12 Dimethicone

CAS No. : 68937-54-2

EINECS No. : Polymer

Approved for EU, USA, Japan and China.

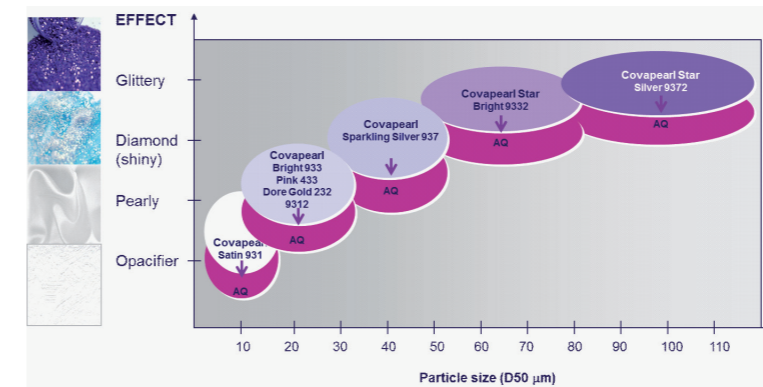
Key Features

- Shear resistant coating
- Chemically bound

Key Properties

- ▶ Easy to introduce in water based system
- ▶ Excellent dispersibility / no agglomeration - low stirring time required
- ▶ Lower water absorption - allow higher pearl content without viscosity increase
- ▶ Highly compatible with anionic thickeners and surfactants. For aqueous bases & O/W emulsions
- ▶ Reduction of Glycol distearate and carbomer
- ▶ Reduction of time of process
- ▶ Improved stability

Sensient's solution to increase pearly effect



Main Applications

1. For skin care
 - Provides optical effect to skin care without glittering: more natural illuminating effect
2. For make-up
 - Enhances pearly finish
 - Better deposition on skin
 - Long lasting: Better resistance to shear
3. For hair care
 - New generation of textures from pearled to glittering
 - No negative effect of ECDS used at 5%, bad hair feel
 - Use at only 0,1%

Other applications and concepts could be found. For more details on innovative formulations and technical advices, ask for our formulation concept document.

Product Line

Pearls

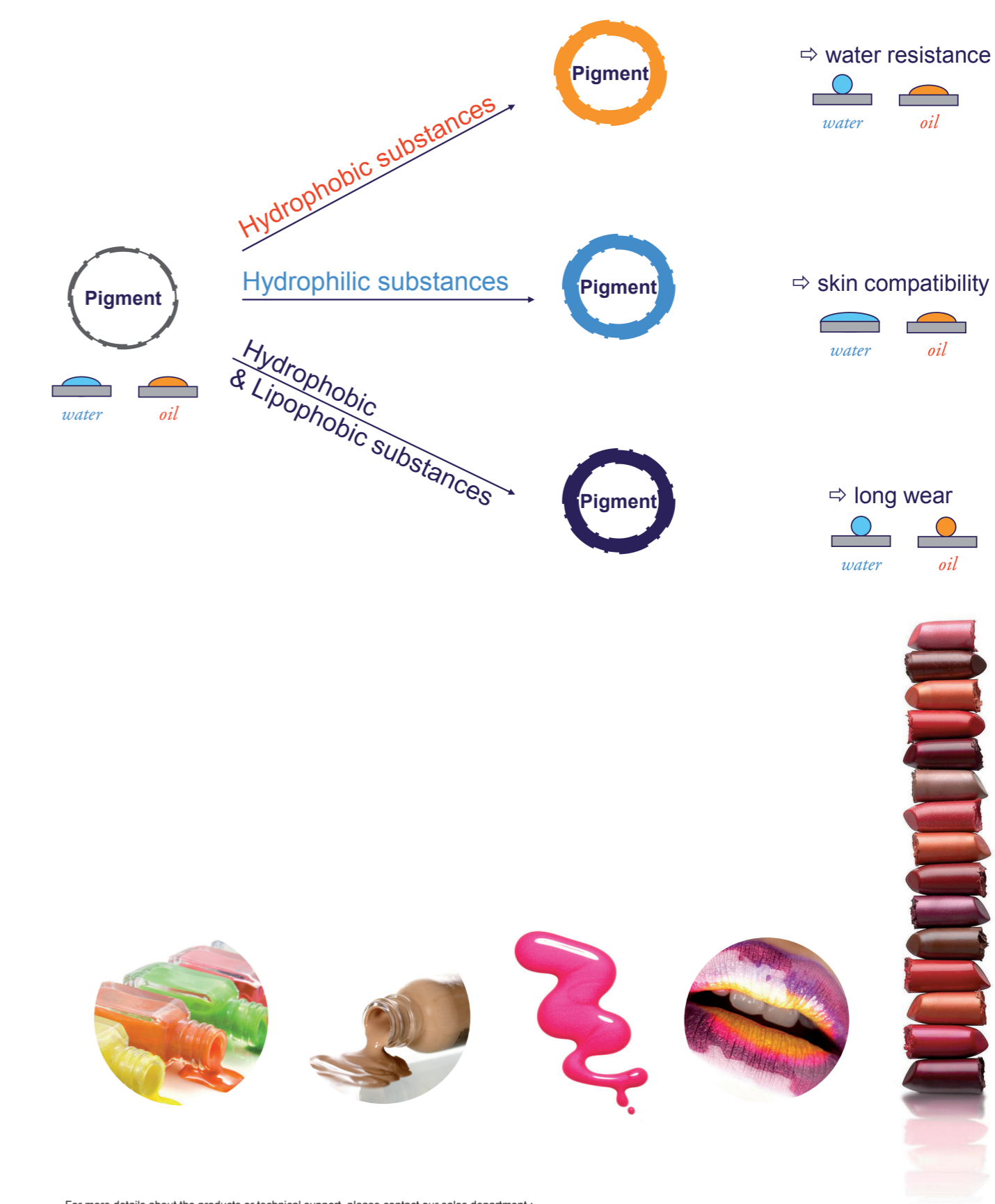
- COVAPEARL ANT. SILVER 239 AQ
- COVAPEARL BLUE 635 AQ
- COVAPEARL BRIGHT 933 AQ
- COVAPEARL BROWN 838 AQ
- COVAPEARL DORE GOLD 232 AQ
- COVAPEARL LIGHT DORE 235 AQ
- COVAPEARL PINK 433 AQ
- COVAPEARL SATIN 931 AQ
- COVAPEARL SILVER 939 AQ
- COVAPEARL SPARK SILVER 937 AQ
- COVAPEARL STAR BRIGHT 9332 AQ
- COVAPEARL STAR GOLD 2302 AQ
- COVAPEARL MINI STAR SIL. 9312AQ
- COVAPEARL MINI STAR PURPLE AQ



Availability

LINES	AS	COVASIL 4.05	ADT-C	FHP	NLL	HLC	NFW Rose CF	GCA	SGP	AQ
Mineral pigments										
CI 77491 (Iron oxides)	✓		✓	✓		✓	✓	✓	✓	
CI 77492 (Iron oxides)	✓		✓	✓		✓	✓	✓	✓	
CI 77499 (Iron oxides)	✓		✓	✓		✓	✓	✓	✓	
CI 77891 (TiO ₂ anatase)				✓		✓	✓		✓	
CI 77891 (TiO ₂ rutile)	✓		✓	✓				✓		
CI 77007 (Ultramarines)	✓									
CI 77288 (Chromium oxide)	✓									
CI 77289 (Chromium hydroxide)	✓									
Fillers										
Mica	✓	✓	✓	✓						
Sericite	✓	✓		✓	✓	✓				
Talc	✓	✓	✓	✓	✓	✓				
Pearls										
Natural pearls	✓					✓				✓
Synthetic pearls	✓									✓
Organic pigments										
CI 15850 (Red 6 Lake)	✓									
CI 15850 (Red 7 lake)	✓		✓							
CI 19140 (Yellow 5 lake)	✓									
CI 42090 (BLUE 1 LAKE)	✓									

Surface modification





SENSIENT®
COSMETIC TECHNOLOGIES



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