



WELCOME TO THE WORLD OF GLAMOUR

A Lightning Effect

September 2021

EMD Electronics

The Electronics business of Merck KGaA, Darmstadt, Germany
operates as EMD Electronics in the U.S. and Canada.

**Surface
Solutions**

A Lightning Effect

Welcome to the World of Glamour

Like the
ROARING
20s

- › Celebration in make-up
- › Re-applying lipstick as a symbol of returning to a happy and joyful life...
- › Make-up, fun, uninhibited and limitless



Create make-up bold enough
for glamorous, extravagant
and fantastic looks



A Lightning Effect Welcome to the World of Glamour

SHIMMER & SPARKLE

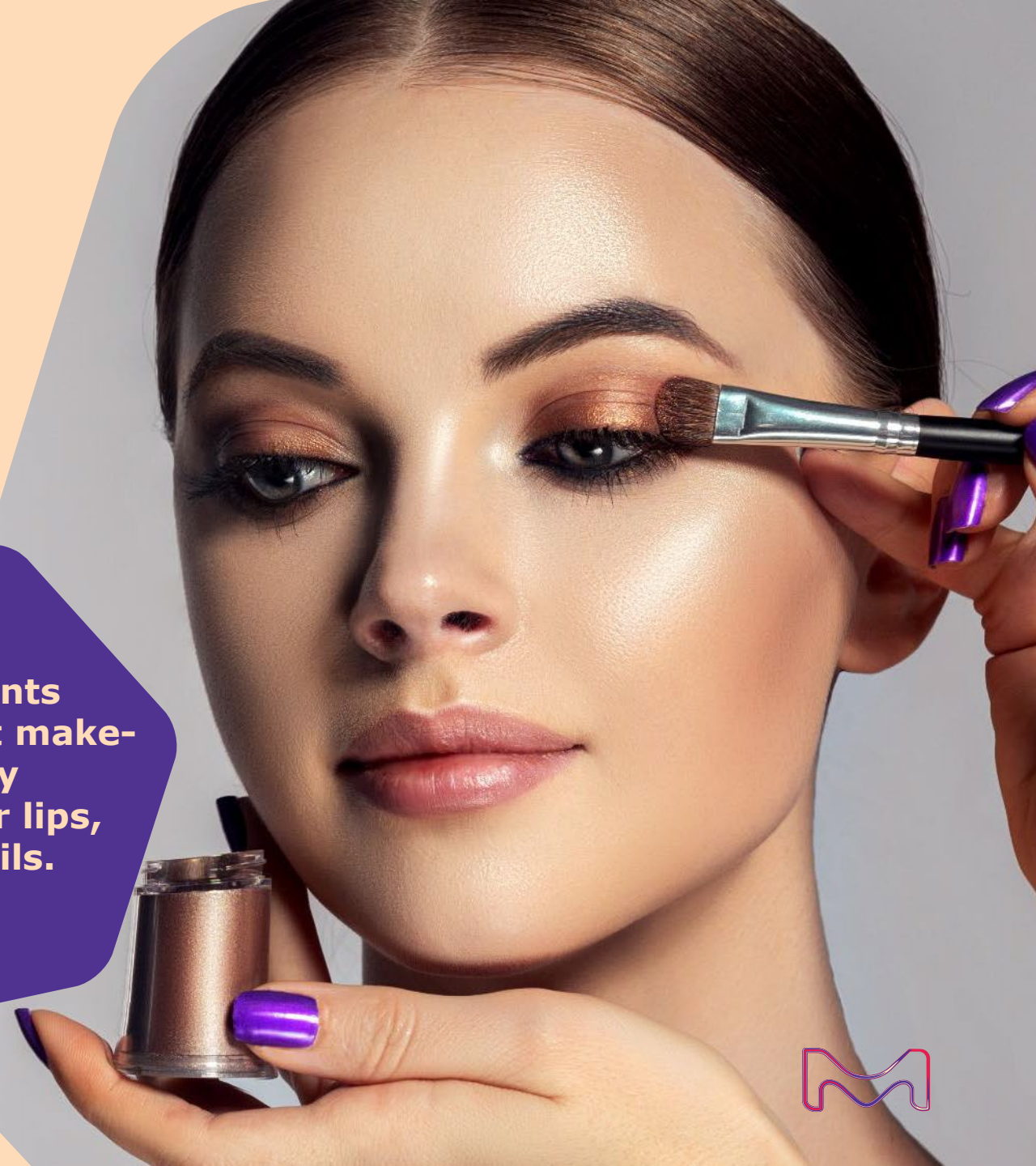
Inspiring colors for real life and the digital world, bringing diversity and self-expression

Dive into:

- › astonishing red and precious gold shades
- › green golds
- › iridescent blues
- › expressive dark shades

and simply merge them to create outstanding and beautiful cosmetics!

**Set statements
with perfect make-
up especially
designed for lips,
eyes and nails.**





Spark Your Cosmetic Formulations

small

↓

Particle Sizes

↓

big

A vibrant yellow-green pigment strip.	A vibrant red pigment strip.	A vibrant blue pigment strip.	A vibrant yellow-gold pigment strip.	A vibrant red pigment strip.	A vibrant silver pigment strip.	A vibrant black pigment strip.
Ronastar® Dazzling Lights (5-30 µm)	Ronastar® Flaming Lights (5-30 µm)	Ronastar® Blue Lights (5-40 µm)	Ronastar® Golden Lights (5-40 µm)	Ronastar® Red Lights (5-40 µm)	Timiron® Glam Silver (5-40 µm)	Ronastar® Diamond Black IQ (5-30 µm)
A vibrant silver pigment strip.	A vibrant gold pigment strip.	A vibrant red pigment strip.	A vibrant blue pigment strip.	A vibrant blue pigment strip.	A vibrant red pigment strip.	A vibrant purple pigment strip.
Ronastar® Silver (10-100 µm)	Ronastar® Gold (10-100 µm)	Ronastar® Red (10-100 µm)	Ronastar® Blue (10-100 µm)	Ronastar® Blue Sparks (20-200 µm)	Ronastar® Red Sparks (20-200 µm)	Ronastar® Purple Sparks (20-200 µm)
A vibrant aqua pigment strip.	A vibrant green pigment strip.	A vibrant silver pigment strip.	A vibrant yellow-gold pigment strip.	A vibrant copper pigment strip.	A vibrant yellow-gold pigment strip.	A vibrant red pigment strip.
Ronastar® Aqua Sparks (20-200 µm)	Ronastar® Green Sparks (20-200 µm)	Ronastar® Frozen Jewel (20-200 µm)	Ronastar® Golden Jewel (20-200µm)	Ronastar® Copper Jewel (20-200µm)	Xirona® Moonlight Sparks (20-200µm)	Xirona® Volcanic Sparks (20-200µm)
A vibrant yellow-gold pigment strip.	A vibrant copper pigment strip.	A vibrant silver pigment strip.	A vibrant silver pigment strip.			
Ronastar® Golden Sparks (20-200 µm)	Ronastar® Copper Sparks (20-200 µm)	Ronastar® Noble Sparks (20-200 µm)	Ronastar® Frozen Jewel (20-200 µm)			

CURIOUS?

From small to big
particle sizes

Astonishing Reds

Have a look! Great & exceptional blends presented in nail polishes!

Blend 48.2

80% Ronastar®
Flaming Lights
20% Ronastar®
Golden Lights

Blend 39.9

80% Ronastar®
Flaming Lights
20% Timiron®
Splendid Red

Blend 275.7

62.5% Ronastar®
Flaming Lights
37.5% Xirona®
Golden Sky

Blend 299

60% Ronastar®
Flaming Lights
40% Ronastar®
Red Allure

Blend 307.1

70% Ronastar®
Blue Lights
20% Xirona®
Le Rouge
10% Ronastar®
Flaming Lights

Blend 275.5

62.5% Ronastar®
Flaming Lights
37.5% Ronastar®
Diamond Black IQ

Blend 40

70% Xirona®
Le Rouge
30% Ronastar®
Red Sparks



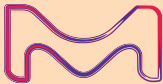
Ronastar® Flaming Lights + **interference colors** result in new **metallic** red shades.

**Less shine
desired?**

**Ingenious
pink**

Exceptional

**Great
multicolor effect**



Precious Gold

Blend 86.10

70% Ronastar®
Golden Jewel
30% Ronastar®
Red Sparks

Blend 86.11

50% Ronastar®
Golden Jewel
50% Ronastar®
Red Sparks

Blend 95.4

20% Ronastar®
Golden Jewel
80% Ronastar®
Red Sparks



Gradient shine
Ronastar® Golden Jewel +
Ronastar® Red Sparks

Blend 277.5

30% Ronastar®
Dazzling Lights
35% Ronastar®
Golden Jewel
35% Xirona®
Moonlight Sparks



**Highest brilliance with
body colored jewels!**

Blend 44.3

20% Colorona®
Tangerine Orange
40% Colorona®
SynBerry Pink
40% Ronastar®
Golden Lights



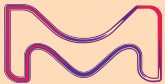
Small particle sized
Ronastar® Golden Lights
in combined to a **soft
metallic copper!**

Blend 277.7

30% Ronastar®
Dazzling Lights
70% Xirona®
Kiwi Rose



Small particle sized Ronastar®
Dazzling Lights in combination
with **color travel!** Gorgeous!



Iridescent Blues

Blend 146.1

36% Timiron®
Halo White
32% Ronastar®
Diamond Black IQ
32% Xirona®
Kiwi Rose

Blend 124

75% Timiron®
Glam Silver
20% Colorona®
Red Brown
5% Colorona®
Mica Black



Small particle sized Ronastar® Diamond Black IQ or Timiron® Glam Silver combined with **fine pearls** deliver **satiny shine!**

Blend 239.3

90% Xirona®
Nordic Sunset
7% Colorona®
Dark Blue
3% Ronastar®
Flaming Lights



Wow effect with small particle sized Ronastar® Flaming Lights and **color travel!**

Blend 287.1

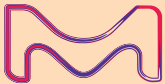
80% Ronastar®
Blue Lights
20% Colorona®
Patagonian Purple

Blend 287.2

40% Ronastar®
Blue Lights
60% Colorona®
Patina Silver



Small particle sized Ronastar® Blue Lights at its best!



Expressive Dark Shades

Blend 201

50% Colorona®
Dark Blue
25% Xirona®
Le Rouge
25% Ronastar®
Purple Sparks



Blend 274.13

30% Ronastar®
Frozen Jewel
50% Colorona®
Blackstar Blue
20% Timiron®
SynBeam Blue



Blend 171

70% Colorona®
Mica Black
15% Xirona®
Le Rouge
15% Ronastar®
Noble Sparks



Great sparkle and **color effects**
with big and small particle sized
pigments in combination!

Blend 93.1

60% Colorona®
Red Gold
20% Ronastar®
Golden Lights
20% Colorona®
Mica Black



Blend 93.2

40% Colorona®
Red Gold
40% Ronastar®
Golden Lights
20% Ronastar®
Black Allure



Small sized Ronastar® Golden Lights with
dark background colors combined with
medium sized body colored **red-gold!**

Blend 92.7

80% Ronastar®
Black Allure
20% Ronastar®
Golden Jewel



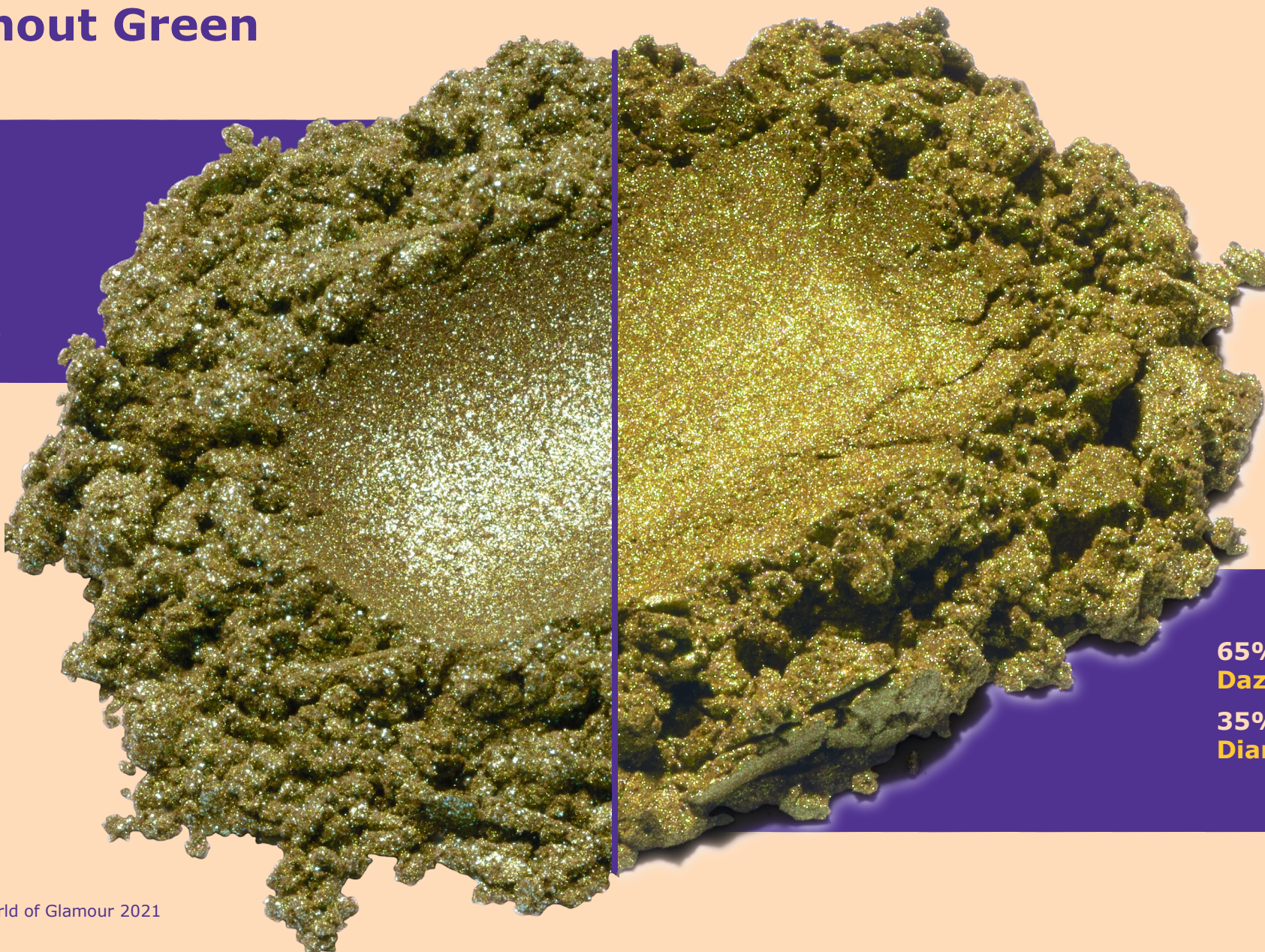
On **top sparkle effects** with
Ronastar® Golden Jewel!



Special Highlights

Green Without Green

40% Ronastar®
Dazzling Lights
40% Ronastar®
Green Sparks
20% Ronastar®
Diamond Black IQ



65% Ronastar®
Dazzling Lights
35% Ronastar®
Diamond Black IQ



Welcome to the World of Glamour

Application Support

TIPS & TRICKS

Experience the many possibilities to develop eye-catching shades with metallic shine and high glittering effect, with or without iridescent multi color effects.

Choose different particle sizes of effect pigments and create the greatest WOW-effects by combining them in the best way possible.



Particle Size Matters

Formulation Know-how

Consider the effect extension-
Combine different particle sizes!



**Ronastar®
Lights Series**
PSD: 5-30/40µm

**Smooth & silky shine,
high coverage**



**Xirona® & Ronastar®
Glass Flakes Series**
PSD 10-100µm

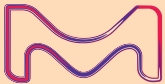
**Brilliance
& luster**



**Ronastar® Sparks
& Xirona® Glass
Flakes Series**
PSD 20-200µm

**Strong sparkle &
glitter, low coverage**

Fine	Medium	Big	Very big
PSD: 1-15µm, 5-25µm, 5-30/40µm	10-60µm	10-100/125µm	20-200µm



Special Highlights On Top Glitter Effects

GEMSTONE TREASURE

Be inspired by our body colored
Ronastar® Jewels.

Discover eye-catching shades by
combing them with smaller sized
pearl pigments.

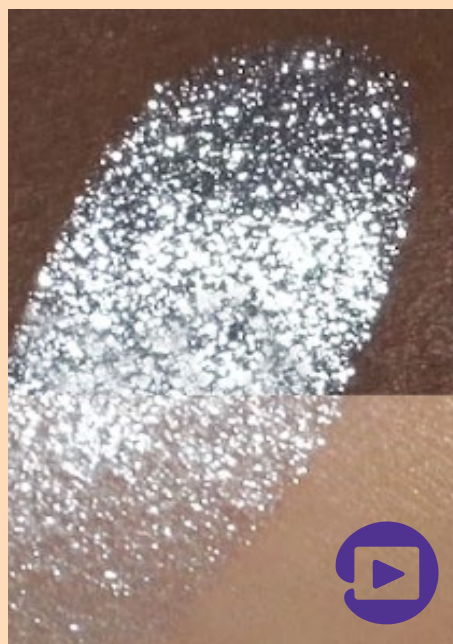


**Very unique “on-top” glitter
effects can be achieved with high
coverage and big particle sizes.**

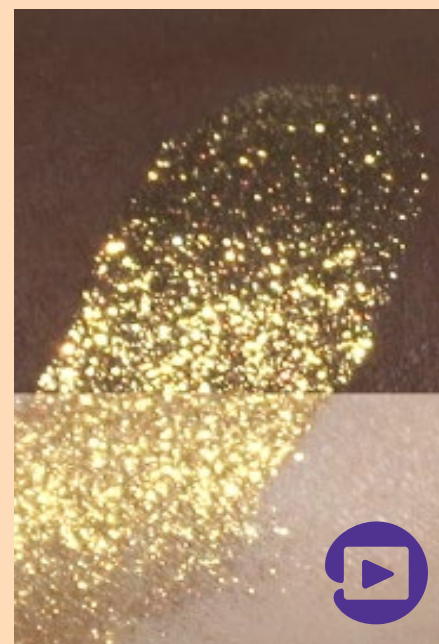


NOTE: to watch the video make sure
you are connected to the internet

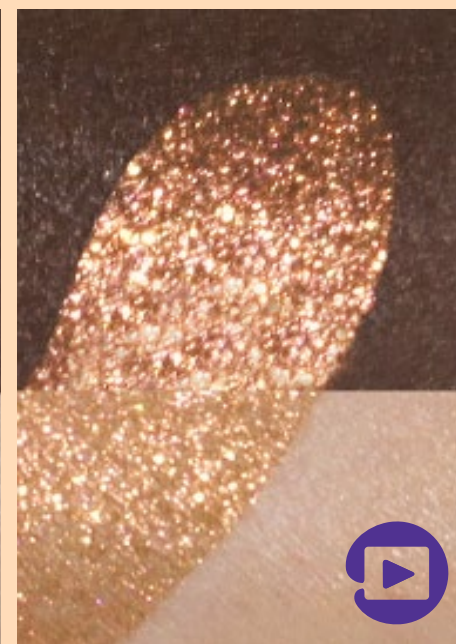
**Observe how bright silver, gold and copper
perform on light and dark skin!**



**Ronastar®
Frozen Jewel**
(20-200 µm)



**Ronastar®
Golden Jewel**
(20-200µm)



**Ronastar®
Copper Jewel**
(20-200µm)



FORMULATION EXAMPLES



Welcome to the World of Glamour

Formulation Examples

Page	Name	Formulation no.	
19	Lip Lacquer - Go for more!	W21-44	
20	Mascara - Eccentric	W22-32	
21	Nourishing Serum Fountain of Youth	S21-13	
22	Highlighter - Golden Compact Powder	MC-HL-190927A	
23	Lip Butter - Caring Rose	MDA-P-79-02	
24	Shampoo - Blue Twinkle	MDA-P-31-18	



W21-44 - Formulation Example

Lip Lacquer - Go for More!



INGREDIENTS	INCI US	[%]
A		
Xirona® Le Rouge	(1) IRON OXIDES (AND) SILICA	3.00
Ronastar® Flaming Lights	(1) ALUMINA (OR ALTERNATIVELY: SYNTHETIC SAPPHIRE) (AND) IRON OXIDES	3.00
Ronastar® Frozen Jewel	(1) CALCIUM ALUMINUM BOROSILICATE (AND) SILICA (AND) TITANIUM DIOXIDE (AND) TIN OXIDE	3.00
Ronastar® Black Allure	(1) IRON OXIDES (AND) SILICA (AND) TITANIUM DIOXIDE (AND) MICA	1.00
Covapate Unired LC 3779	(2) RICINUS COMMUNIS (CASTOR) SEED OIL (AND) RED 7	2.00
B		
RonaCare® Bisabolol nat.	(1) BISABOLOL	0.40
RonaCare® AP	(1) BIS-ETHYLHEXYL HYDROXYDIMETHOXY BENZYL MALONATE	0.50
Fragrance Jazz Night	(3) FRAGRANCE	0.20
Preservative	PRESERVATIVE	q.s.
Crodamol ISIS-LQ-(MV)	(4) ISOSTEARYL ISOSTEARATE	3.00
Sebumol ODPC	(5) OCTYLDODECYL PCA	4.00
Miglyol® 808	(6) TRICAPRYLIN	5.00
Cegesoft C 24	(7) OCTYL PALMITATE	8.00
Versagel® ME 750	(8) HYDROGENATED POLYISOBUTENE (AND) ETHYLENE/ PROPYLENE/STYRENE COPOLYMER (AND) BUTYLENE/ ETHYLENE/STYRENE COPOLYMER (AND) BHT	ad 100

SUPPLIERS:

- | | |
|--|-----------------------------------|
| (1) Merck KGaA, Darmstadt, Germany / EMD Performance Materials Corp. | (5) Zschimmer & Schwarz GmbH & Co |
| (2) S. Goldmann GmbH & Co. KG | (6) IOI Oleo GmbH |
| (3) Cosnaderm GmbH | (7) BASF AG |
| (4) Croda | (8) Penreco |

NOTES:

Extravagant Sparkling: Xirona® Le Rouge, Ronastar® Flaming Lights and Ronastar® Frozen Jewel merge to an intense red with glittery finish. RonaCare® Bisabolol nat. acts as a natural soothing agent and RonaCare® AP provides anti-oxidative power to sensitive lips.

PROCEDURE:

Combine all ingredients of phase B, heat up to 60°C while stirring. Once the mass is homogeneous, add the pearlescent pigment of phase A while stirring. Then add perfume while stirring until the mass is uniform. Then fill into appropriate container.



W22-32 - Formulation Example

Mascara - Eccentric



INGREDIENTS		INCI US	[%]
A			
Ronastar® Blue Lights	(1)	ALUMINA (OR ALTERNATIVELY: SYNTHETIC SAPPHIRE) (AND) TITANIUM DIOXIDE (AND) SILICA (AND) TIN OXIDE	12.00
Ronastar® Flaming Lights	(1)	ALUMINA (OR ALTERNATIVELY: SYNTHETIC SAPPHIRE) (AND) IRON OXIDES	3.00
B			
Emulium Kappa MB	(2)	CANDELILLA/JOJOBA/RICE BRAN POLYGLYCERYL-3 ESTERS (AND) GLYCERYL STEARATE (AND) CETEARYL ALCOHOL (AND) SODIUM STEAROYL LACTYLATE	6.00
Acticire MB	(2)	JOJOBA ESTERS (AND) HELIANTHUS ANNUUS (SUNFLOWER) SEED WAX (AND) ACACIA DECURRENS FLOWER WAX (AND) POLYGLYCERIN-3	4.00
M.O.D	(2)	OCTYLDODECYL MYRISTATE	3.00
Compritol 888 ATO	(2)	GLYCERYL BEHENATE	3.00
Wax white	(1)	BEEWAX	2.80
Lipocire™ A SG	(2)	C10-18 TRIGLYCERIDES	2.00
Cutina CP	(3)	CETYL PALMITATE	1.20
C1			
RonaCare® Potassium Sorbate	(1)	POTASSIUM SORBATE	0.60
Natpure Film AP	(4)	ACACIA SENEGAL GUM EXTRACT (AND) PULLULAN (AND) SORBITOL (AND) TREHALOSE	5.00
Water, demineralized		WATER	add 100
C2			
Glycerol anhydrous (vegetable) EMPROVE® bio	(1)	GLYCERIN	10.00
VANATURAL	(5)	BENTONITE	3.00
D			
RonaCare® Benzyl Alcohol	(1)	BENZYL ALCOHOL	1.00
E			
Citric acid, 10% solution		WATER (AND) CITRIC ACID	q.s.

SUPPLIERS:

- (1) Merck KGaA, Darmstadt, Germany / EMD Performance Materials Corp.
- (2) Gattefossé (Deutschland) GmbH
- (3) BASF AG
- (4) S. Goldmann GmbH & Co. KG
- (5) Erbslöh

NOTES:

With its unconventional shade of pink, Eccentric mascara creates a showy and unexpected look. The pink color of this dye-free formulation is produced by combining the special effect pigments Ronastar® Blue Lights and Xirona® Le Rouge. This luminous pigment combination does not contain animal-derived ingredients and is suitable for vegan cosmetics. It's also highly stable in formulations because of its purely inorganic composition. The use of RonaCare® Potassium Sorbate and RonaCare® Benzyl Alcohol helps to maintain the microbiological stability of the formulation.

PROCEDURE:

Dissolve RonaCare® Potassium Sorbate in water of phase C1 while stirring. Add Solagum™ AX and mix until homogeneous; heat up to 75°C. Mix ingredients of phase C2 in a beaker and stir with a spatula. Add phase C2 to phase C1 and mix until homogeneous. Mix phase B and heat up to 75-80°C. When all is melted, disperse phase A into phase B and check that temperature is 75-80°C. Add phase A/B to phase C1/C2 while stirring and homogenize. Cool down while stirring. At about 35°C add phase D. Adjust pH to 5.5-6.0 with phase E and let it cool completely. Fill the mascara into suitable packaging..



S21-13 - Formulation Example

Nourishing Serum Fountain of Youth



INGREDIENTS		INCI US	[%]
A			
RonaFlair® Flawless	(1)	SILICA (AND) TITANIUM DIOXIDE (AND) IRON OXIDES	2.50
Ronastar® Red Lights	(1)	ALUMINA (OR ALTERNATIVELY: SYNTHETIC SAPPHIRE) (AND) TITANIUM DIOXIDE (AND) TIN OXIDE	0.50
B			
RonaCare® Cyclopeptide-5 alcoholfree	(1)	GLYCERIN (AND) WATER (AND) LECITHIN (AND) ECTOIN (AND) CYCLOTETRAPEPTIDE-24 AMINOCYCLOHEXANE CARBOXYLATE	2.00
RonaCare® RenouMer	(1)	WATER (AND) POLYSIPHONIA ELONGATA EXTRACT (ALGAE EXTRACT) (AND) SODIUM BENZOATE (AND) CITRIC ACID	2.00
RonaCare® Ectoin	(1)	ECTOIN	1.00
Solagum™ AX	(2)	XANTHAN GUM (AND) ACACIA GUM	1.50
Water, demineralized		WATER	89.40
C			
Microcare PHC	(3)	PHENOXYETHANOL (AND) CHLORPHENESIN (AND) GLYCERIN	1.00
D			
Fragrance Ginger Spirit	(4)	FRAGRANCE	0.10

SUPPLIERS:

- (1) Merck KGaA, Darmstadt, Germany / EMD Performance Materials Corp.
- (2) Seppic
- (3) Thor GmbH
- (4) Cosnaderm GmbH

NOTES:

This nourishing serum is a Fountain of Youth thanks to RonaCare® RenouMer and RonaCare® Ectoin. A subtle light beige color with a hint of sparkling red is created by a combination of RonaFlair® Flawless and Ronastar® Red Lights.

PROCEDURE:

Sprinkle Solagum AX in water of phase B and stir for about 15 min. Add the active ingredients one by one in the given order and stir until homogeneous. Add phase C. Add phase A and stir until all is well dispersed. Add phase D. Adjust the pH value to 5.5-6.0 if necessary. Fill into desired packaging.



MC-HL-190927A - Formulation Example

Highlighter - Golden Compact Powder



INGREDIENTS		INCI US	[%]
A			
RonaFlair® Mica M	(1)	MICA	13.00
RonaFlair® Boroneige® SF-15	(1)	BORON NITRIDE	2.00
RonaFlair® Soft Sphere	(1)	SYNTHETIC FLUORPHLOGOPITE (AND) SILICA	2.00
Talc		TALC	12.85
Magnesium Stearate	(2)	MAGNESIUM STEARATE	5.00
DOWSIL 9707 COSMETIC POWDER	(3)	DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER (AND) SILICA	1.00
B			
Oxyhex® K liquid	(1)	PEG-8 (AND) TOCOPHEROL (AND) ASCORBYL PALMITATE (AND) ASCORBIC ACID (AND) CITRIC ACID	0.05
Oxyhex® ST	(1)	DIETHYLHEXYL SYRINGYLIDENE MALONATE	0.05
Isododecane	(4)	ISODODECANE	2.00
Belsil TMS 803	(4)	TRIMETHYLSILOXYSILICATE	3.00
Silsoft 034	(5)	CAPRYLYL METHICONE	13.00
Preservatives		PRESERVATIVES	q.s.
Fragrance		FRAGRANCE	q.s.
C			
Ronastar® Golden Lights	(1)	ALUMINA (OR ALTERNATIVELY: SYNTHETIC SAPPHIRE) (AND) TITANIUM DIOXIDE (AND) TIN OXIDE	20.00
Timiron® Glam Silver	(1)	ALUMINA (AND) TITANIUM DIOXIDE (AND) TIN OXIDE	14.00
Ronastar® Dazzling Lights	(1)	ALUMINA (OR ALTERNATIVELY: SYNTHETIC SAPPHIRE) (AND) IRON OXIDES (AND) TITANIUM DIOXIDE (AND) TIN OXIDE	6.00
Ronastar® Gold	(1)	CALCIUM ALUMINUM BOROSILICATE (AND) TITANIUM DIOXIDE (AND) SILICA (AND) TIN OXIDE	5.00
Colorona® SynBronze	(1)	SYNTHETIC FLUORPHLOGOPITE (AND) IRON OXIDES	1.00

SUPPLIERS:

- | | |
|--|-----------------------------------|
| (1) Merck KGaA, Darmstadt, Germany / EMD Performance Materials Corp. | (3) Dow Corning |
| (2) Whittaker, Clark & Daniels | (4) China Chemical Reagent |
| | (5) Momentive Performance Materia |

NOTES:

Stability Test Result: 3 months at 40°C, 4°C, RT, 1 month at 50°C and 12 days cycle (-18°C to 40°C)

PROCEDURE:

Mix phase A ingredients till uniform. Add phase B till uniform. Add phase C till uniform. 2MPa, 10 seconds, press to compact



MDA-P-79-02 - Formulation Example

Lip Butter - Caring Rose



INGREDIENTS

INCI US

[%]

A			
Eusolex® T-2000	(1)	TITANIUM DIOXIDE (AND) ALUMINA (AND) SIMETHICONE	10.00
Eusolex® 2292	(1)	OCTINOXATE	7.50
RonaCare® Bisabolol nat.	(1)	BISABOLOL	0.50
Preservative	(2)	PRESERVATIVE	q.s.
all-rac-alpha-Tocopheryl acetate	(1)	TOCOPHERYL ACETATE	0.50
Kahljelly 7036 Plus	(3)	CASTOR OIL (AND) RHUS VERNICIFLUA PEEL WAX/RHUS SUCCEDANEA FRUIT WAX (AND) ASCORBYL PALMITATE (AND) TOCOPHEROL	15.00
Castor Oil	(4)	RICINUS COMMUNIS (CASTOR) SEED OIL	9.75
Dermofeel® Viscolid	(5)	HYDROGENATED VEGETABLE OIL	10.00
Haselnut oil	(6)	CORYLUS AVELLANA (HAZEL) SEED OIL	10.00
Cocoa Butter	(7)	THEOBROMA CACAO (COCOA) SEED BUTTER	4.00
Shea Butter	(6)	BUTYROSPERMUM PARKII (SHEA) BUTTER	3.00
Imwitor 600	(8)	POLYGLYCERYL-3 POLYRICINOLEATE	1.00
B			
Ronastar® Flaming Lights	(1)	ALUMINA (OR ALTERNATIVELY: SYNTHETIC SAPPHIRE) (AND) IRON OXIDES	8.30
Xirona® Volcanic Sparks	(1)	CALCIUM ALUMINUM BOROSILICATE (AND) TITANIUM DIOXIDE (AND) SILICA (AND) TIN OXIDE	4.30
Fragrance		FRAGRANCE	q.s.
C			
RonaCare® Ectoin	(1)	ECTOIN	1.00
Glycerol 85%	(1)	GLYCERIN (AND) WATER	6.00
Water, demineralized		WATER	ad 100

SUPPLIERS:

- | | |
|--|----------------------------------|
| (1) Merck KGaA, Darmstadt, Germany / EMD Performance Materials Corp. | (5) Evonik Nutrition & Care GmbH |
| (2) Schülke & Mayr GmbH | (6) Gustav Heess GmbH |
| (3) Kahl GmbH & Co. KG | (7) H. Erhard Wagner GmbH |
| (4) Henry Lamotte Oils GmbH | (8) IOI Oleo GmbH |

PROCEDURE:

Mix ingredients of phase A one after another and heat up to 80°C under medium stirring until a clear solution is obtained. Add phase B while stirring. Start to cool down under medium stirring and stir until a turbid oil solution is obtained (35-40°C). Add phase C and homogenise (Ultra-Turrax, 1min, 8000rpm). Fill in containers and leave untouched until a homogenous gel is obtained.



MDA-P-31-18 - Formulation Example

Shampoo - Blue Twinkle



INGREDIENTS

INCI US

[%]

A

Ronastar® Blue Lights	(1)	ALUMINA (OR ALTERNATIVELY: SYNTHETIC SAPPHIRE) (AND) TITANIUM DIOXIDE (AND) SILICA (AND) TIN OXIDE	0.01
Water, demineralized		WATER	ad 100
Texapon NSO UP	(2)	WATER (AND) SODIUM LAURETH SULFATE	40.00
WorléeAqua Thix 100	(3)	ACRYLATES COPOLYMER	8.00
Sodium Hydroxide, 10%	(1)	WATER (AND) SODIUM HYDROXIDE	0.00

B

Tego® Betain F 50	(4)	COCAMIDOPROPYL BETAINE	5.60
Proteol O.A.T.	(5)	SODIUM LAUROYL OAT AMINO ACIDS	1.00
Preservatives		PRESERVATIVES	q.s.
Fragrance		FRAGRANCE	q.s.
Dye stuff solution			q.s.

SUPPLIERS:

- (1) Merck KGaA, Darmstadt, Germany / EMD Performance Materials Corp.
- (2) BASF AG
- (3) Worlée Chemie GmbH
- (4) Evonik Nutrition & Care GmbH
- (5) Seppic

PROCEDURE:

Put the water of phase A into the beaker first and add the pearlescent pigment while stirring. Disperse Worlée Aqua Thix100 and add Texapon NSO while stirring. Adjust to pH=6.3 with Sodium Hydroxide solution (calculate 5-6%), if necessary. Add Tego Betain F 50 and remaining components of phase B while gently stirring. Fill the bulk into packages of choice.

Notes:

Nice effects can be achieved with Timiron® Silver Pigments, Timiron® Interference Pigments as well as Timiron® Liquid Silver, Colorona® Gold Pigments, Ronastar® Pigments and Xirona® Pigments; pigment combinations are also possible. Recommended concentration is between 0.05 and 1.0 % pigment. This formula will stabilize the pigments and prevent them from settling down to the bottom of the package.



SUPERB COLLECTION

Mirror mirror on the wall, who is the most glamorous of them all?

Our superb collection of glass flake pigments enliven colors and personal care cosmetics with mirror-like sparkles!



Product Information

Ronastar® Lights Series and Related Pigments

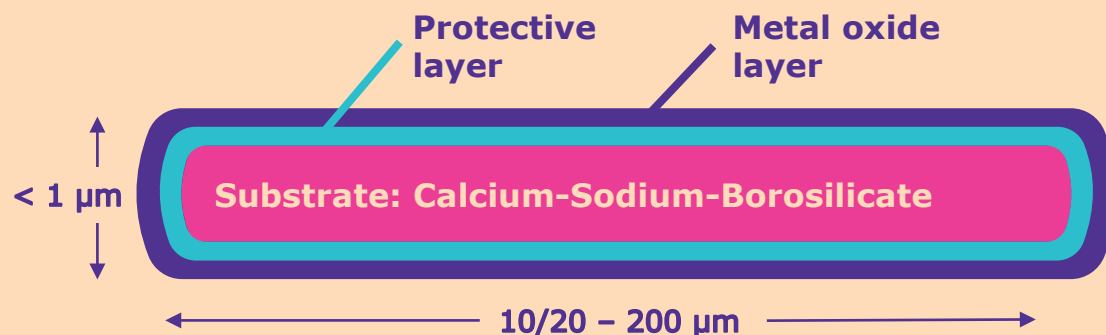
Name	INCI	Package Size	Item No.
Ronastar® Dazzling Lights	Alumina (or alternatively: Synthetic Sapphire), CI 77491 (Iron Oxides), CI 77891 (Titanium Dioxide), Tin Oxide	50 g, 1 kg, 20 kg	117270
Ronastar® Flaming Lights	Alumina (or alternatively: Synthetic Sapphire), CI 77491 (Iron Oxides)	50 g, 1 kg, 20 kg	117233
Ronastar® Blue Lights	Alumina (or alternatively: Synthetic Sapphire), CI 77891 (Titanium Dioxide), Silica, Tin Oxide	50 g, 1 kg, 20 kg	117280
Ronastar® Golden Lights	Alumina (or alternatively: Synthetic Sapphire), CI 77891 (Titanium Dioxide), Tin Oxide	50 g, 1 kg, 25 kg	117231
Ronastar® Red Lights	Alumina (or alternatively: Synthetic Sapphire), CI 77891 (Titanium Dioxide), Tin Oxide	50 g, 1 kg, 25 kg	117262
Timiron® Glam Silver	Alumina, CI 77891 (Titanium Dioxide) Tin Oxide	50 g, 1 kg, 25 kg	117741
Ronastar® Diamond Black IQ	CI 77499 (Iron Oxides), Alumina (or alternatively: Synthetic Sapphire), Silica, CI 77491 (Iron Oxides)	50 g, 1 kg, 25 kg	117790



Glass Flake Substrate Technology

Achieve striking glitter effects with our glass flake based pigments!

How to find them in our portfolio list:
Look out for the **INCI: Ca-Na-Borosilicate**



The secret behind the substrate technology is that it consists of a metal, a metal oxide layer and an additional protective coating: This silica layer enhances gloss and is responsible for the high pigment stability.

USPs

- › **Clear & bright colors** due to the pure white substrate
- › Technology with protective layer enhances reflection and pigment stability
- › Large particles with a very even **surface coating** and rounded edges deliver high brilliance and a good skin feel
- › **Low heavy metal** content

In formulations:

- › **High impact** in low concentrations
- › **Easy to incorporate** into formulations



Benefit From All!

Summary



Easy to formulate metallic or super glittery shades



Low use level in clear formulation shows high sparkle impact = cost saving!



Easy to combine with all colorants and pearls

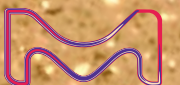


Easy to incorporate in all kinds of cosmetic applications

PROFIT

from the eye-catching effects:

- **Support your unique product claims (e.g. in personal care products)**
- **Differentiate your products from the competition directly on the shelf**



CONTACT DATA

Products are warranted to meet the specifications set forth on their label/packaging and/or certificate of analysis at the time of shipment or for the expressly stated duration. EMD Performance Materials Corp. provides information and advice on application technologies and relevant regulations based upon its current knowledge and opinion. EMD PERFORMANCE MATERIALS CORP. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE REGARDING OUR PRODUCTS, THEIR APPLICATION OR ANY INFORMATION PROVIDED IN CONNECTION THEREWITH. EMD Performance Materials Corp. shall not in any event be liable for incidental, consequential, indirect, exemplary or special damages of any kind resulting from any use or failure of the products. Customer is responsible for and must independently determine the suitability of our products for its intended use and processes. The foregoing information and suggestions are also provided without warranty of non-infringement as to intellectual property rights of third parties and shall not be construed as any inducement to infringe the rights of third parties. Customer shall be responsible for obtaining any applicable third party intellectual property licenses. All sales are subject to our complete Terms and Conditions of Sale. Prices are subject to change without notice. EMD Performance Materials Corp. reserves the right to discontinue products without prior notice.

© 2021 Merck KGaA, Darmstadt, Germany and/or its affiliates. EMD Electronics, the vibrant M, Colorona, Eusolex, Rona, RonaCare, Ronastar, Timiron and Xirona are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates. All other trademarks are the property of their respective owners. Detailed information on trademarks is available via publicly assessable resources

EMD Performance Materials Corp.

Surface Solutions
1200 Intrepid Avenue, Suite 300
Philadelphia, PA 19112
emd4cosmetics.com
E-Mail: rona@emdgroup.com
An affiliate of Merck KGaA,
Darmstadt, Germany

Merck KGaA

Electronics
Surface Solutions
Cosmetics
Frankfurter Str. 250
64293 Darmstadt, Germany

Merck Performance Materials G.K.

Surface Solution
ARCO Tower, 11F
1-8-1, Shimomeguro, Meguro-ku
153-8605 Tokyo, Japan

