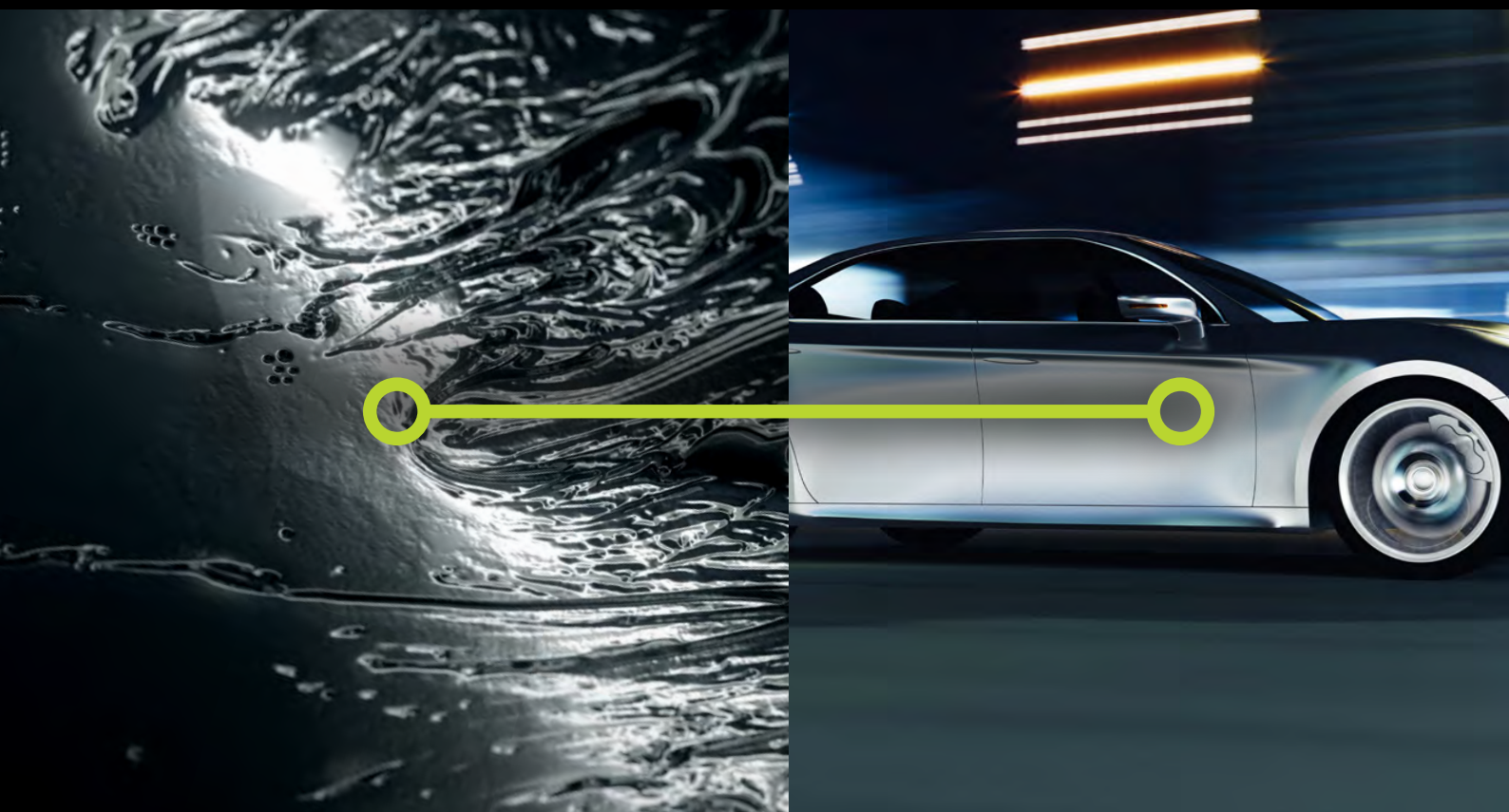


SILBERLINE™

FROM SCIENCE TO SHINE™

PAINT + COATINGS

Product Data and Selection Guide: Europe



We transform raw materials from science to shine, beautifying the products of our customers throughout the world.

We are Silberline.

Silberline thrives on a passion for innovation in creating the finest aluminium pigments for the brightest, most appealing effects possible. We are equally committed to supporting a balanced environment by seeking sustainable solutions in all we do.

Silberline's many lines of aluminium pigments can be used in coatings for applications as diverse as automotive, plastics, graphics arts and general industrial. With a wide range of particle sizes, geometry and delivery form options, the possibilities for applying our products are as limitless as your imagination.

PIGMENT SERIES ■ Suitable	Automotive Solventborne OEM	Automotive Waterborne OEM	Automotive Solventborne Refinish	Automotive Waterborne Refinish	Automotive Parts and Accessories	Wheels	Automotive Interior	Solventborne Industrial Coatings	Waterborne Industrial Coatings	Can Coatings	Powder Coatings
AQUA PASTE®											
AQUAVEX®											
AQUAVEX AD											
AQUAVEX AD Premier											
ETERNABRITE®											
ETERNABRITE Premier											
SILBERCOTE® AQ											
SILBERCOTE AQ Liquid Metal											
SILBERCOTE AQ X-treme											
SILBERCOTE AQ Star											
SILBERCOTE PC Elite											
SILBERCOTE PC-Z											
SILBERCOTE Y											
SILBERCOTE Z											
SILVER STAR®											
SILVET®											
SPARKLE SILVET®											
SPARKLE SILVER®											
SPARKLE SILVER Premier											
SPARKLE SILVER ULTRA®											
SPARKLE SILVER Elite											
SPARKLE SILVER X-treme											
SPARKLE SILVER ULTRA Liquid Metal											
SPARKLE SILVER Elite Liquid Metal											
STARBRITE®											
STARBRITE Reveal											
STARBRITE Reveal AQ											
TUFFLAKE®											
TUFFLAKE Premier											

PRODUCTS + SPECIFICATIONS

ALUMINIUM PIGMENTS FOR WATERBORNE COATINGS

Silberline has developed several unique passivation technologies, each with a level of sophistication and performance that is tailored to meet legislative requirements for waterborne coatings. Various chemistries have been developed to optimise the interaction with the aluminium flake surface, imparting outstanding performance and stability while maintaining optimum aesthetics. Silberline can apply its passivation technology to any traditional aluminium pigment we manufacture, resulting in a wide range of possible metallic effects. In addition, each batch of passivated aluminium pigment is tested and approved for gassing stability prior to shipment.

Inhibited Aluminium Paste for Waterborne Coatings					
Family	Percentage Non-volatile by Weight	D (50%) Microns	Geometry	Solvent Carrier	Surface Treatment
SILBERCOTE AQ					
SILBERCOTE AQ E5000-F3X	50.0	15	Corn Flake	GE	Silica
SILBERCOTE AQ E2169-F3X	50.0	15	Corn Flake	GE	Silica
SILBERCOTE AQ E666-F2X	50.0	20	Corn Flake	GE	Silica
SILBERCOTE AQ 3500-F2X	50.0	28	Corn Flake	GE	Silica
SILBERCOTE AQ 3130-F1X	58.0	36	Corn Flake	GE	Silica
SILBERCOTE AQ E2140-F3X	50.0	14	Silver Dollar	GE	Silica
SILBERCOTE AQ E554-F2X	50.0	17	Silver Dollar	GE	Silica
SILBERCOTE AQ E2154-F2X	50.0	18	Silver Dollar	GE	Silica
SILBERCOTE AQ E354-F3X	58.0	26	Silver Dollar	GE	Silica
SILBERCOTE AQ Liquid Metal 011	60.0	11	Silver Dollar	GE	Silica
SILBERCOTE AQ Liquid Metal 020	60.0	20	Silver Dollar	GE	Silica
SILBERCOTE AQ Elite Liquid Metal 011	60.0	11	Silver Dollar	GE	Silica
SILBERCOTE AQ Elite Liquid Metal 015	60.0	15	Silver Dollar	GE	Silica
SILBERCOTE AQ X-treme 15	55.0	15	Silver Dollar	GE	Silica
SILBERCOTE AQ X-treme 17	55.0	17	Silver Dollar	GE	Silica
SILBERCOTE AQ X-treme 19	55.0	19	Silver Dollar	GE	Silica
SILBERCOTE AQ X-treme 20	60.0	20	Silver Dollar	GE	Silica
SILBERCOTE AQ Star 010	60.0	10	Silver Dollar	GE	Silica
SILBERCOTE AQ Star 012	60.0	12	Silver Dollar	GE	Silica
SILBERCOTE AQ Star 015	60.0	16	Silver Dollar	GE	Silica
SILBERCOTE AQ Star 018	60.0	18	Silver Dollar	GE	Silica
SILBERCOTE AQ Star 022	60.0	22	Silver Dollar	GE	Silica
SILBERCOTE AQ Elite 010	60.0	10	Silver Dollar	GE	Silica
SILBERCOTE AQ Elite 012	60.0	12	Silver Dollar	GE	Silica
SILBERCOTE AQ Elite 014	60.0	14	Silver Dollar	GE	Silica

Abbreviation: GE (Glycol Ether)

SILBERCOTE AQ – Passivated aluminium pigments use advanced technology to encapsulate each individual flake of aluminium with a uniform, coherent and protective layer of silica. The result is a pigment with excellent gassing resistance and stability in a wide range of metallic effects. Easily dispersed into water/ co-solvent while providing excellent adhesion. The treatment can be applied to both corn flake and silver dollar aluminium pigments and has been found to also enhance the circulation stability of the pigment while maintaining the flake integrity, shape and coloristic properties.

PRODUCTS + SPECIFICATIONS

Passivated Aluminium Pigments for Waterborne Coatings

Family	Percentage Non-volatile by Weight	D (50%) Microns	Geometry	Type	Carrier	Aluminium Content	Passivation
AQUAVEX							
AQUAVEX L 010	98.5	10	Corn Flake	Leafing	SF	80	Advanced Phosphate
AQUAVEX L Premier 021	98.5	21	Silver Dollar	Non-Leafing	SF	80	Advanced Phosphate
AQUAVEX NL 010	98.5	10	Corn Flake	Non-leafing	SF	80	Advanced Phosphate
AQUAVEX NL 013	98.5	13	Corn Flake	Non-leafing	SF	80	Advanced Phosphate
AQUAVEX NL 015	98.5	15	Corn Flake	Non-leafing	SF	80	Advanced Phosphate
AQUAVEX NL Premier 011	98.5	12	Silver Dollar	Non-leafing	SF	80	Advanced Phosphate
AQUAVEX NL Premier 016	98.5	16	Silver Dollar	Non-leafing	SF	80	Advanced Phosphate
AQUAVEX AD 010	98.5	10	Corn Flake	Non-leafing	SF	75	PHS
AQUAVEX AD 013	98.5	13	Corn Flake	Non-leafing	SF	75	PHS
AQUAVEX AD 015	98.5	15	Corn Flake	Non-leafing	SF	75	PHS

Abbreviation: PHS (Phosphate); SF (Surfactant)

AQUAVEX – Passivation utilises advanced phosphate technology to stabilise the aluminium pigment from reacting with water in waterborne coatings systems. The product is supplied in a granular version containing a low-foaming, non-ionic surfactant for easy dispersion directly into water. AQUAVEX contains 80% aluminium pigment, is low dusting and is virtually solvent-free. AQUAVEX AD has a pigment content of 75% and improves adhesion to substrate and clear coat. It is recommended that AQUAVEX AD granules are allowed to soak in plain water for no longer than 3 hours and always in an unsealed or vented container prior to being converted into the final ink.

Passivated Aluminium Paste for Waterborne Coatings

Family	Percentage Non-volatile by Weight	D (50%) Microns	Maximum Percentage Retained 325 Mesh	Geometry	Solvent Carrier	Passivation
AQUA PASTE						
AQUA PASTE 7005-C63	56.0	10	0.10	Corn Flake	MS/HA/GE	PHS
AQUA PASTE E2169-C43	60.0	13	0.10	Corn Flake	MS/HA/GE	PHS
AQUA PASTE E5245-C33	56.0	21	0.10	Corn Flake	MS/HA/GE	PHS
AQUA PASTE 3141-C33	60.0	31	0.10	Corn Flake	MS/HA/GE	PHS
AQUA PASTE 504-C33	63.0	16	0.10	Silver Dollar	MS/HA/GE	PHS
AQUA PASTE 454-C33	64.0	22	0.10	Silver Dollar	MS/HA/GE	PHS

Abbreviations: GE (Glycol Ether); HA (High Aromatic); MS (Mineral Spirits); PHS (Phosphate)

AQUA PASTE – Easy dispersion in co-solvent and provides excellent gassing resistance and stability in waterborne systems. This line includes a combination of solvents useful for formulating in waterborne applications. Silberline AQUA PASTE inorganic passivation technology is applicable to traditional corn flake and silver dollar aluminium flake pigments.

PRODUCTS + SPECIFICATIONS

ALUMINIUM PIGMENTS FOR SOLVENTBORNE COATINGS

Leafing and non-leafing aluminium pigments are commonly used in a variety of coatings including maintenance coatings, powder coatings, automotive coatings and traditional liquid coatings. Aluminium pigments bring value to these coatings by increasing their aesthetic value and by adding functional attributes to the finished coating film.

Corn Flake Aluminium Paste for Solventborne Coatings				
Family	Percentage Non-volatile by Weight	D (50%) Microns	Maximum Percentage Retained 325 Mesh	Solvent Carrier
SPARKLE SILVER				
SPARKLE SILVER E-7000-AR	64.0	7	0.10	MS/HA
SPARKLE SILVER 7005-AR	62.0	10	0.10	MS/HA
SPARKLE SILVER E-5000-AR	64.0	15	0.10	MS/HA
SPARKLE SILVER E-5306-AR	60.0	15	0.10	MS/HA
SPARKLE SILVER E-5245 AR	60.0	20	0.01	MS/HA
SPARKLE SILVER 3400-AR	60.0	22	0.01	MS/HA
SPARKLE SILVER 3500 *	65.0	27	2.00	MS/HA
SPARKLE SILVER E-3000 AR	65.0	28	2.00	MS/HA
SPARKLE SILVER 3334-AR	62.0	28	2.00	MS/HA
SPARKLE SILVER E-3166 AR	60.0	30	5.00	MS/HA
SPARKLE SILVER 3141-ST *	66.0	30	1.00	MS/HA
SPARKLE SILVER 3666 *	60.0	30	5.00	MS/HA
SPARKLE SILVER E-3199 AR	60.0	31	2.00	MS/HA
SPARKLE SILVER 3641 *	70.0	31	1.00	MS/HA
SPARKLE SILVER 3130-AR *	74.0	36	1.00	MS/HA
SPARKLE SILVER E-3122-AR	75.0	38	1.00	MS/HA
SPARKLE SILVER E-3622	75.0	38	1.00	MS/HA
E-1745	60.0	11	0.10	MS/HA
E-2169	64.0	14	0.10	MS/HA
E-1147AR	64.0	20	0.10	MS/HA
L-20245	64.0	8	0.10	MS/HA
L-21790	65.0	11	0.10	MS/HA
L-20957	62.0	19	0.01	MS/HA
L-21163	62.0	20	0.10	MS/HA
L-22745	60.0	26	1.00	MS/HA
L-20181	70.0	40	2.00 ²	MS/HA

Abbreviations: HA (High Aromatic); MS (Mineral Spirits) * Produced Globally

¹ Maximum Percentage Retained 230 Mesh

² Maximum Percentage Retained 200 Mesh

CORN FLAKE ALUMINIUM PASTES – This range of pigments consists of corn flake shaped aluminium pigments in paste versions. Most of the grades, including the SPARKLE SILVER series, have been designed with technology to polish the aluminium flake surface in combination with a controlled particle size distribution allowing them to have a wide application in solventborne coatings. The wide range of particle sizes available allows for formulations of high opacity, smooth patina metallic silver effects and tints through to highly sparkling effects.

PRODUCTS + SPECIFICATIONS

Silver Dollar Aluminium Paste for Solventborne Coatings				
Family	Percentage Non-volatile by Weight	D (50%) Microns	Maximum Percentage Retained 325 Mesh	Carrier
SPARKLE SILVER				
SPARKLE SILVER Premier E-504-AR	70.0	15	0.01	MS/HA
SPARKLE SILVER Premier E-554	70.0	17	0.01	MS/HA
SPARKLE SILVER Premier 303-AR *	70.0	20	0.01	MS/HA
SPARKLE SILVER Premier 313-AR *	70.0	22	0.01	MS/HA
SPARKLE SILVER Premier 353 *	70.0	23	0.01	MS/HA
SPARKLE SILVER ULTRA 7908	70.0	7	0.01	MS/HA
SPARKLE SILVER ULTRA 7807	73.0	9	0.01	MS/HA
SPARKLE SILVER ULTRA 6704	77.0	11	0.01	MS/HA
SPARKLE SILVER ULTRA 6756	72.0	12	0.01	MS/HA
SPARKLE SILVER ULTRA 6605	80.0	15	0.01	MS/HA
SPARKLE SILVER ULTRA 6555	75.0	17	0.01	MS/HA
SPARKLE SILVER Elite 008	70.0	8	0.01	MS/HA
SPARKLE SILVER Elite 010	72.0	10	0.01	MS/HA
SPARKLE SILVER Elite 012	72.0	12	0.01	MS/HA
SPARKLE SILVER Elite 014	72.0	14	0.01	MS/HA
SPARKLE SILVER X-treme 15	72.0	15	0.01	MS/HA
SPARKLE SILVER X-treme 17	72.0	17	0.01	MS/HA
SPARKLE SILVER X-treme 19	72.0	19	0.10	MS/HA
SPARKLE SILVER X-treme 20	72.0	20	0.10	MS/HA
SPARKLE SILVER Elite Liquid Metal 011	70.0	11	0.01	MS/HA
SPARKLE SILVER Elite Liquid Metal 015	65.0	15	0.01	MS/HA

Abbreviations: HA (High Aromatic); MS (Mineral Spirits)

* Produced Globally

SILVER DOLLAR ALUMINIUM PASTES – These pigments, including the SPARKLE SILVER Premier series, are engineered to have more uniform surfaces, rounder edges and tightly controlled particle size distributions. This unique silver dollar technology gives designers the possibility to create whiter, brighter and cleaner silver and polychromatic colours.

SPARKLE SILVER Premier – Engineered to have more uniform surfaces, rounder edges and tightly controlled particle size distributions. This unique silver dollar technology gives designers the possibility to create whiter, brighter and cleaner silver and polychromatic colors.

SPARKLE SILVER ULTRA – Very bright, lenticular pigments offering an exceptionally smooth patina and narrow particle size distribution. This allows the formulator to create very smooth, brilliant mass tones, or clean, vibrant colors. This grade is designed for the stylist to raise the bar in metallic effects and creativity.

SPARKLE SILVER Elite – Finer, brighter metallic effects offering excellent face brightness with a deep flop and high gloss. Used to create brilliant, high-gloss masstone silver colors or clean and vibrant tints.

SPARKLE SILVER X-treme – Allows for clean tint bases that boost chromatic effect. These pigments employ Silberline's advanced silver dollar technology that yields exceptional color and brilliance. It generates richness in metallic reflection across a wide range of viewing angles and offers excellent performance in automotive OEM finishes. It is ideal for use in refinish, wheel coatings, parts and accessories.

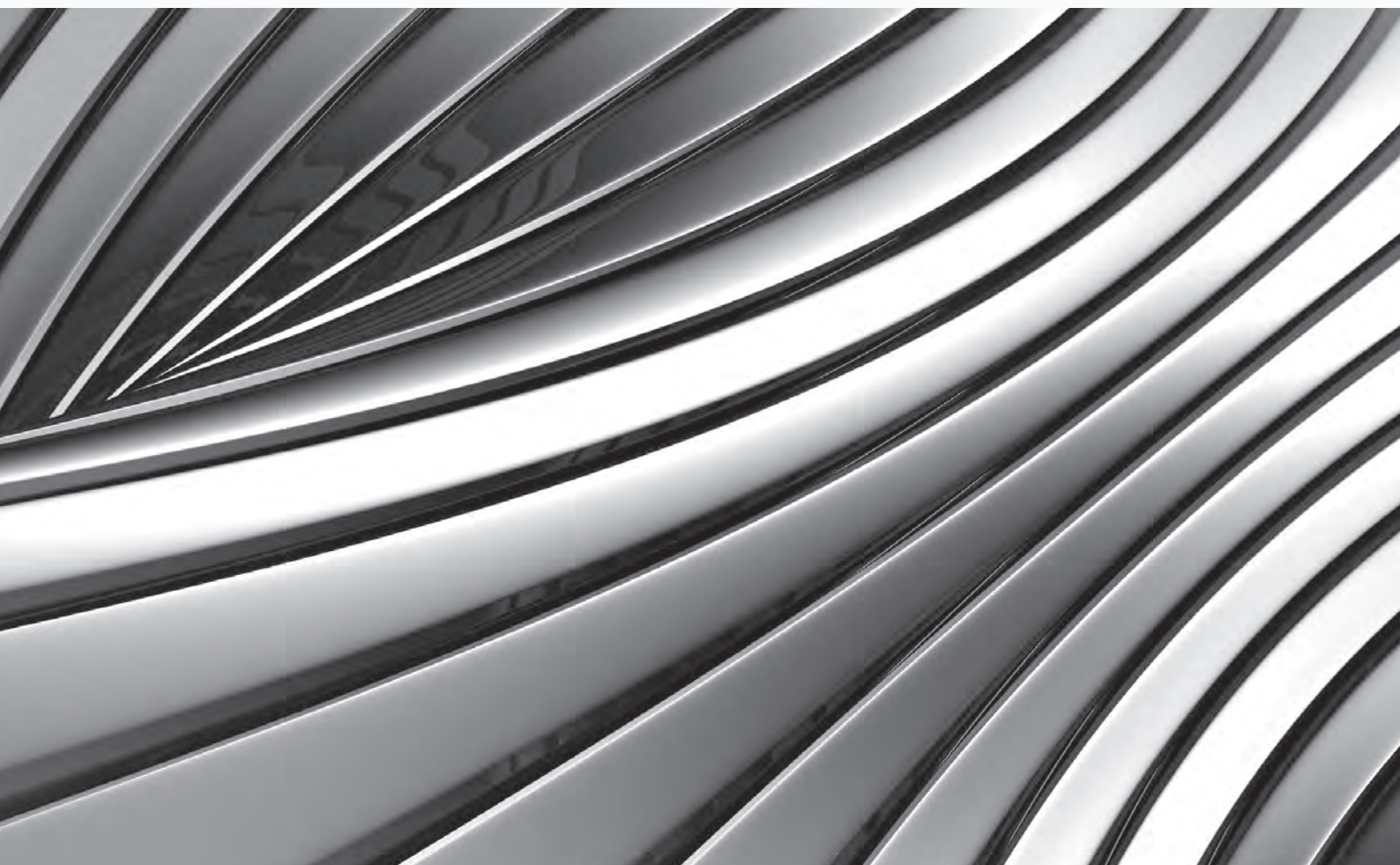
SPARKLE SILVER Elite Liquid Metal – These fine silver dollar milled aluminium flakes with a highly polished surface can be formulated for use within a multitude of coatings ranging from automotive OEM, refinish, interior, wheel coatings, 3C and general industrial.

PRODUCTS + SPECIFICATIONS

SILBERCOTE Resin Treated Aluminium Paste				
Family	Percentage Non-volatile by Weight	D (50%) Microns	Solvent Carrier	Surface Treatment
Y Series				
SILBERCOTE 516-20Y	55.0	14	MS/HA	Acrylic Polymer
SILBERCOTE 5245-20Y	50.0	21	MS/HA	Acrylic Polymer
Z Series				
SILBERCOTE 7908-10Z	55.0	8	MS/HA	Acrylic Polymer
SILBERCOTE 303-20Z	55.0	20	MS/HA	Acrylic Polymer
SILBERCOTE 132-10Z	60.0	24	MS/HA	Acrylic Polymer
SILBERCOTE 3641-10Z	61.0	31	MS/HA	Acrylic Polymer
SILBERCOTE Ultra 011LM-20Z	50.0	11	MS/HA	Acrylic Polymer
SILBERCOTE Ultra 020LM-20Z	50.0	20	MS/HA	Acrylic Polymer

Abbreviations: HA (High Aromatic); MS (Mineral Spirits)

SILBERCOTE Y and Z – Resin treated pigments have been created to provide non-leaving aluminium pigments with improved resistance to acids and alkalis, making them suited for automotive interior coatings and parts. The coating on the very bright pigments makes them less conductive. The surface treatment also improves the spray characteristics.



PRODUCTS + SPECIFICATIONS

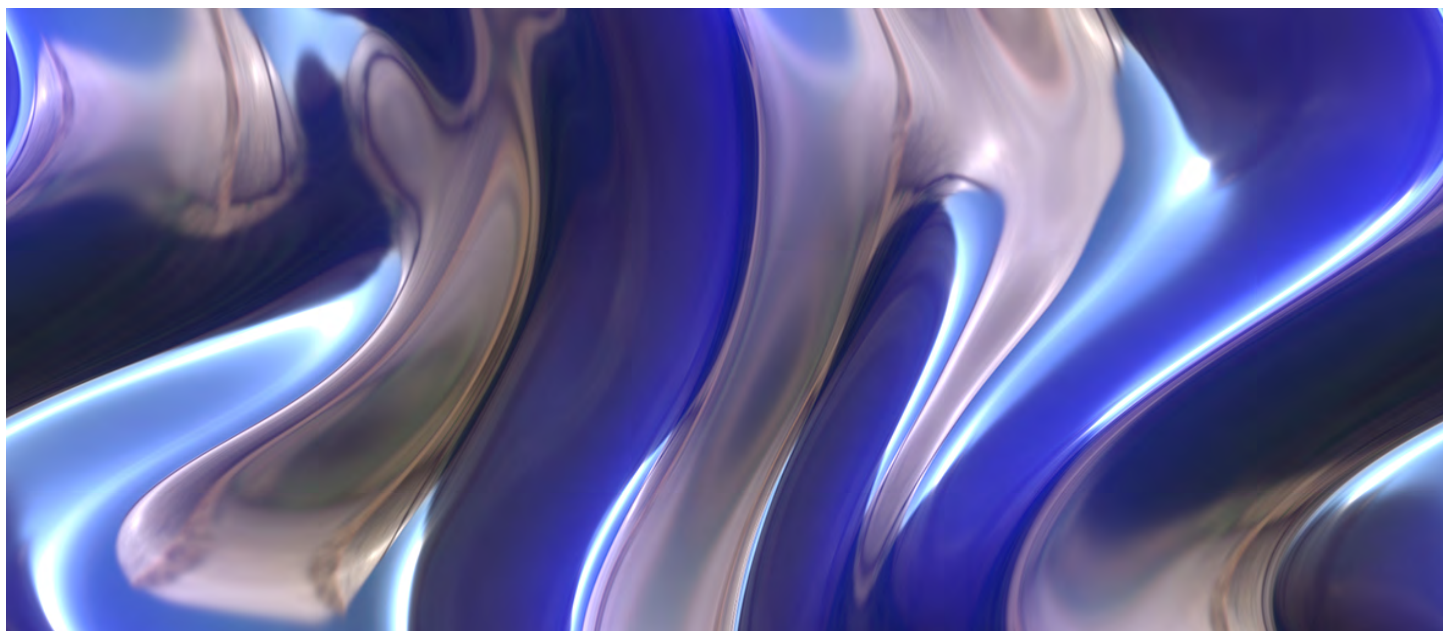
ALUMINIUM PIGMENTS FOR POWDER COATINGS

The following product families are designed to provide value to the powder coatings manufacturer based on performance in the finished powder coating. The products provide compatibility across a full range of powder coating types and support the demands of virtually any application.

Aluminium Pigments for Powder Coatings				
Family	Percentage Non-volatile by Weight	D (50%) Microns	Surface Treatment	Application
SILBERCOTE PC				
SILBERCOTE PC E-3087	99.0	13	Silica	Dry blend/Bonding
SILBERCOTE PC-8153X	99.0	15	Silica	Dry blend/Bonding
SILBERCOTE PC-8602X	99.0	16	Silica	Dry blend/Bonding
SILBERCOTE PC-6222X	99.0	20	Silica	Dry blend/Bonding
SILBERCOTE PC-6792X	99.0	26	Silica	Dry blend/Bonding
SILBERCOTE PC-4852X	99.0	33	Silica	Dry blend/Bonding
SILBERCOTE PC-3331X	99.0	36	Silica	Dry blend/Bonding
SILBERCOTE PC-3101X	99.0	37	Silica	Dry blend/Bonding
SILBERCOTE PC-1291X	99.0	47	Silica	Dry blend/Bonding
SILBERCOTE PC-014XS	99.0	14	Advanced Silica	Dry blend/Bonding
SILBERCOTE PC-020XS	99.0	20	Advanced Silica	Dry blend/Bonding
SILBERCOTE PC-036XS	99.0	36	Advanced Silica	Dry blend/Bonding
SILBERCOTE PC-055XS	99.0	55	Advanced Silica	Dry blend/Bonding

SILBERCOTE Powder Coating X – High-performance, free-flowing aluminium pigment powder designed for electrostatic spray application. The individual aluminium flakes are coated with a uniform layer of silica which protects the aluminium particle from moisture and chemical degradation. These products are suitable for dry blending or bonding methods.

SILBERCOTE Powder Coating XS – Treated with an advanced proprietary silica surface encapsulation for use in demanding applications. The advanced treatment provides the highest degree of surface protection to the aluminium providing stability to harsh chemical environments such as alkali, acid, humidity, mortar, etc. These products are provided in the form of a free-flowing powder and are suitable for either dry blending or bonding methods.



PRODUCTS + SPECIFICATIONS

Acrylic Coated Powder Coating Series

Family	Percentage Non-volatile by Weight	D (50%) Microns	Surface Treatment	Application
SILBERCOTE PCZ				
SILBERCOTE PC 7166Z	98.5	17	Acrylic	Dry blend/Bonding
SILBERCOTE PC 1303Z	99.0	46	Acrylic	Dry blend/Bonding

SILBERCOTE PCZ – Based on a proprietary polymer encapsulation technology, these products provide an alternative to silica encapsulated grades. They exhibit a better electrostatic response than inorganic treatments.

SILVET Series

Family	Percentage Non-volatile by Weight	D (50%) Microns	Carrier	Application
LEAFING				
SILVET 210-20-J *	99.0	15	Aldehyde	Extrusion
NON-LEAFING				
SILVET 210-30-E1	98.5	8	Polyolefin	Extrusion
SPARKLE SILVET 960-30-E1 *	98.5	14	Polyolefin	Extrusion
SPARKLE SILVET 880-30-E1	98.5	28	Polyolefin	Extrusion
SPARKLE SILVET 790-30-E1 *	98.5	45	Polyolefin	Extrusion
SPARKLE SILVET 764-30-E1	98.5	80	Polyolefin	Extrusion
SPARKLE SILVET 790-20-P	98.5	45	Acrylic	Extrusion
SPARKLE SILVET 960-20-J	99.0	14	Aldehyde	Extrusion
SPARKLE SILVET 880-20-J	99.0	28	Aldehyde	Extrusion
SPARKLE SILVET 790-20-J	99.0	45	Aldehyde	Extrusion
SPARKLE SILVET 960-25-E	98.5	14	Polyolefin	Extrusion
SPARKLE SILVET 960-30-E1*	98.5	14	Polyolefin	Extrusion
SPARKLE SILVET 880-20-E	98.5	28	Polyolefin	Extrusion
SPARKLE SILVET 790-30-E1*	98.5	44	Polyolefin	Extrusion
SPARKLE SILVET 760-20-E	98.5	55	Polyolefin	Extrusion
SPARKLE SILVET 790-20-E	98.5	35	Polyolefin	Extrusion

* Produced Globally

SILVET – Dry, non-dusting granular form for ease of handling and dispersion when added to powder coatings by the extrusion method. The SILVET granules are available in a wide range of particle sizes, in leafing and non-leafing types and with either synthetic aldehyde, acrylic or polyolefin carrier resins. The product can be applied by electrostatic or tribo application. Care must be taken during extrusion and micronizing stages to avoid damage to the aluminium particles which can reduce brightness and sparkle.

PRODUCTS + SPECIFICATIONS

Vacuum Metalised Pigments

Family	Percentage Non-volatile by Weight	D (50%) Microns	Solvent Carrier*	Passivation
STARBRITE				
STARBRITE 6108-EAC	10.0	8	EAC	-
STARBRITE 2180-EAC	18.0	10	EAC	-
STARBRITE 4102-EAC	10.0	12	EAC	-
STARBRITE 5102-EAC	10.0	12	EAC	-
STARBRITE Reveal 4102-EAC	10.0	12	EAC	-
STARBRITE Reveal AQ 4172-PA	17.0	12	IA	PHS/SF
STARBRITE Reveal AQ 4172-PM	17.0	12	GE/PM	PHS/SF

Abbreviations: EAC (Ethyl Acetate); GE (Glycol Ether); IA (Isopropyl Alcohol); PHS (Phosphate); SF (Surfactant); PM (1-Methoxy – 2-Propanol)

* Other carrier solvents are available.

STARBRITE – Unique characteristics enable the formulator to achieve a smooth, mirror-like metallic effect with a highly-reflective, brilliant finish due to its exceptionally high surface area and aspect ratio. These products are supplied as 10% dispersion in ethyl acetate solvent, with certain other solvents available upon special request. STARBRITE Reveal offers broader compatibility and a greener manufacturing process.

STARBRITE Reveal AQ – Allows for mirror-like waterborne coatings to be produced. Good stability and compatibility are possible.





TECHNICAL SERVICES

Silberline's technical service team can help you select the appropriate product grade, formulation or application technique for your specific process. By using high-quality test methods and practices at Silberline's Center for Technical Functions and Advanced Manufacturing, customers get top-notch help solving their aluminium coatings challenges.

No matter where you are,
we've got you covered.

SILBERLINE[™]
FROM SCIENCE TO SHINE[™]

Silberline customer service centers around the globe are ready to assist you with product samples, literature requests, technical assistance and more. From concept to commercialisation and all stages in between, we are at your service with prompt, proven performance.

For technical assistance, email us at: technology@silberline.com or call us at 570-668-6050 or 877-492-7881 (toll-free in U.S. and Canada). For assistance in selecting the Silberline products to meet your needs or to request product literature, contact your local Silberline representative.

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