

AEROCOAT® Stainless Flake

INTERIOR & EXTERIOR

SOLVENT BASED

Description:

A one component, solvent based stainless flake satin metallic barrier coating made with AISI 316L stainless steel flakes.

Intended Uses:

AEROCOAT® Stainless Flake is a high-performance protective coating formulated with AISI 316L Alloy Flake pigments, delivering exceptional resistance to corrosion and environmental degradation. Designed for use in highly corrosive conditions, it maintains a bright metallic lustre even after years of exposure while resisting staining, tarnishing, oxidation, and chemical attack.

The coating forms a reflective barrier that deflects sunlight, significantly reducing UV degradation and preserving film integrity. Weathering further enhances its colour and metallic brightness, while the smooth, hard surface minimises dirt accumulation and simplifies cleaning.

With excellent hardness and durability, AEROCOAT® Stainless Flake also provides outstanding abrasion resistance, making it suitable for demanding environments where mechanical wear is a concern. Acting as an effective moisture barrier, it prevents swelling, deterioration, and premature failure of the protective film.

Containing iron, nickel, and chromium pigments that are inert to chemical attack, the coating withstands exposure to acids, alkalis, and a wide range of chemicals. It is ideal for both industrial and decorative applications, including pipes, steel structures, automotive and trailer parts, bicycles, motorcycles, rims, wrought iron, railings, marine fittings, decorative metalwork, equipment housings, and even DIY repairs to stainless steel.

Features & Benefits:

- Excellent flexibility.
- Metallic satin appearance.
- High temperature resistance of 150°C.
- Excellent UV resistance.
- Excellent corrosion protection.
- Low porosity and permeability.
- Quick drying.
- Hard, smooth surface that repels dirt & dust.
- Hydrophobic, weather resistant and spot weldable.

Certifications:

Consult a Specialized Coating Systems technical representative for details.

Technical Data:

Product Physical Form	Aerosol
Binder Type	Modified acrylic
Colour	Steel grey satin
Appearance	Smooth
Recommended DFT	40 – 50µm per coat
Spreading Rate	Approx. 1.5 – 2 m ² / aerosol @ 50µm DFT, allow for loss factors
Number of Coats	1 - 2
Method of Application	Aerosol

AEROSOLS: AEROCOAT®

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

Density	1.2 Kg/ Litre
Temperature Resistance	Dry continuous – 150°C
Pack Size	400ml (12 x cans per carton)
Storage	Store out of direct sunlight in dry conditions between 15°C and 25°C. Store can with nozzle in dry conditions out of direct sunlight away from sources of heat or ignition.
Shelf Life	2 – 3 years when stored as recommended in original un-opened containers

Important Information:

- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Specialized Coating Systems representative for specific recommendations.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating.

Surface Preparation:

The performance of this product will depend upon the degree of surface preparation. The surface to be coated must be cleaned and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000 (General Principles)

Accumulated dirt and soluble salts must be removed. Dry bristle brushing will normally be adequate for accumulated dirt. Soluble salts should be removed by freshwater rinsing. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Abrasive Blast Cleaning

For atmospheric exposure best performance will be achieved when AEROCOAT® Stainless Flake is applied to surfaces prepared to Sa2½ (ISO 8501:2007 or SSPC-SP10; a minimum of Sa2½ (ISO 8501:2007) or SSPC-SP6 must be achieved.

Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.

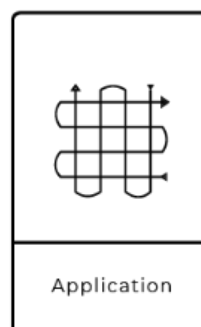
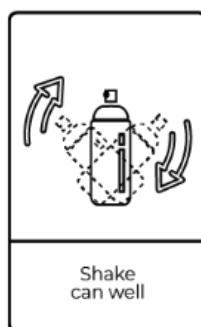
A blast profile of 40 – 75 microns is recommended

Hand or Power Tool Preparation

Hand or power tool clean to a minimum of St2 (ISO 8501-1:2007) or SSPC-SP2.

Note, all scale must be removed and areas which cannot be prepared adequately by chipping or needle gun should be blasted to a minimum standard of Sa2 (ISO 8501-1:2007) or SSPC-SP6. Typically, this would apply to C or D grade rusting in this standard.

Application:



Application Environment			
	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	5°C*	5°C	No lower limit
Maximum	45°C	40°C	85%

* or 3°C above dew point

Drying & Overcoating Information	
Touch Dry	20 min @ 25°C
Overcoating Time	4 hours @ 25°C
Hard Dry	4 hours @ 25°C
Full Cure	24 hours @ 25°C
Extra Information	Without abrasion, can be over coated with AEROCOAT® Stainless Flake. 24 Hours should be allowed for other topcoats. Light abrasion using sandpaper is required after 24 hours.

Systems:

Can be applied direct to steel. Consult a Specialized Coating Systems technical representative for coating systems solutions.

Safety Information:

- Refer to product SDS for health & safety prior to using products.
- Always wear safety clothing / protection. Respirators, eye protection and skin protection.
- Apply in well-ventilated areas.

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