

SILKSTAR® 500

Silicone Modified Polyester coating system



**Much longer life span
with delightful color**

Excellent formability

**Lead-free &
environmentally friendly**

SILKSTAR® 500 is a silicone-protected polyester coil coating system, designed for use in architectural, residential, commercial and industrial applications.

- **15 Years Film Integrity**



The image is intended to represent typical end use only.

Product Information

SILKSTAR® 500, one of the high durable series, is a standard coil coating system designed exclusively for the metal construction industry. It is available in a wide variety of colors. SILKSTAR® 500 series carries a 15 year warranty commitments for film integrity under the general climatic conditions in Asia.

Warranty document of specific product is available for qualified applicator, upon end customer requirements.

SILKSTAR® 500 coating system can also be combined with a special coating technology, such as a metallic appearance coating, printed coating etc. to make the pre-painted metal panel unique in appearance and rich in color.

Product composition

SILKSTAR® 500 is a two-coat system, composed of topcoat and a primer. The topcoat is formulated with proprietary resin and selective durable inorganic and organic pigments. The Primer is the specified polyester primer from AkzoNobel.

Application

SILKSTAR® 500 is factory-applied finish that is applied through roll coating to properly cleaned and pre-treated substrates, and then oven-baked to cure.

Substrates

SILKSTAR® 500 coating system can be applied to the following substrates: including Hot-Dipped Galvanized (HDG), Galvalume®, Galfan® and Aluminum.

Storage, safety and disposal

Store in original container protected from direct sunlight in a dry, cool and well ventilated area.

The user and carrier shall ensure for the personal and environmental safety during the application and transportation in accordance to the product safety data sheets.

In order to protect the environment, any of the product waste and used container should all times comply to the requirements of environmental protection and waste disposal legislation and regional local authority requirements.

Contact Us

AkzoNobel Coatings (Jiaxing) Co. Ltd
No. 1 Dongsheng Road
Jiashan Economic Development Zone
Jiaxing, Zhejiang 314100

T +86 573 84253001

E Coil.China@akzonobel.com

www.akzonobel.com/coilcoatings

SILKSTAR® 500 Typical parameters

Dry Film Thickness	Topside finish: Primer 5 um, topcoat 18~20 um Reverse side finish: Primer 5 um, backer 5 um
Color	Refer to the color card Color match service available Please Consult sales representative for details
Gloss	Typically 35+/-5, but are available in other range as per consumer's requirement
Cross-Hatch Adhesion	No paint removal
T-bend Flexibility	No loss of adhesion at 3T
Reverse Impact resistance	No paint removal at reverse impact of 9J
Pencil Hardness	≥H (Chung Hwa 505 pencil for Coil coating hardness measurement)
Solvent resistance	Passes minimum of 100 double rubs of MEK soaked cloth
Scratch resistance	No film break at 1500g loading, tested by a needle scratcher
Humidity resistance	No blistering, cracking, peeling, loss of gloss or hardness change after 1000 hours exposure to >95% humidity at 40± 2°C (non-condensation humidity test chamber)
Chemical resistance	No obvious change after 24 hours immersion to a 5% hydrochloric acid solution No obvious change after 24 hours immersion to a 5% sodium hydroxide solution
Water boiling resistance	No gloss loss, color change, cracking, blistering or peeling after boiled at 100°C water for 2 hours
Salt spray resistance	Blistering no greater than 2S3. No other significant defects after neutral salt spray for 1000 hours
Accelerated weathering	Chalking no greater than grade 1 (#8 chalking grade as per ASTM4214), no blistering, cracking and other significant defect after 1000 hours exposure using QUVA-340 bulbs



AkzoNobel is a leading global paints and coatings company and a major producer of specialty chemicals. Calling on centuries of expertise, we supply industries and consumers worldwide with innovative products and sustainable technologies designed to meet the growing demands of our fast-changing planet. Headquartered in Amsterdam, the Netherlands, we have approximately 46,000 people in around 80 countries, while our portfolio includes well-known brands such as Dulux, Sikkens, International, Interpon and Eka. Consistently ranked as one of the leaders in the area of sustainability, we are committed to making life more liveable and our cities more human.

© 2016 Akzo Nobel N.V. All rights reserved.

Remarks:

1. Unless otherwise marked, the standard testing methods are as per GB/T 13448-2006; rating schemes of degradation of coats as per GB/T 1766-2008.
2. The typical parameters are based on premium quality HDG or Galvalume® substrate, 0.3~0.6mm gauge, and complete coating system to fulfill the standardized film thickness and cure condition.
3. Test results may vary with substrates and testing environments.
4. Metallic effect and printing paint will have a certain impact on durability due to the special pigments or coating structure. For more details, please contact with AkzoNobel.
5. The performance parameters are based on our lab testing and practical experiences over qualified substrates to illustrate typical performance only. We will not be liable for any responsibility, damages, losses or consequences beyond our control that the parameter sheet may lead to.