



Silhouette Paints

Innovate True Colors

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Product description

This is a one component physically drying silicone acrylic coating. It is heat resistant up to 300 - 400 °C. Can be used as primer, mid coat or finish coat in atmospheric environments. Suitable for properly prepared carbon steel, galvanized steel, stainless steel and aluminium substrates.

Typical use

Protective:

Designed as heat resistant coating. Suitable for insulated and non insulated surfaces. Recommended in combination with an inorganic zinc silicate coating as primer, providing heat resistance up to 400 °C and long term corrosion protection. For shorter periods, such a combined system can handle peak temperatures up to 540 °C.

Product data		
Property	Test/Standard	Description
Solids by volume	ISO 3233	30 ± 2 %
Gloss level (GU 60 °)	ISO 2813	SHEEN OF ALUMINIUM
Flash point	ISO 3679 Method 1	26 °C
Baking Schedule		180°C For 20-30min.

The provided data is typical for factory produced products, subject to slight variation depending on colour.

Note: Heat resistant topcoats can be tinted in a range of colours. However, due to its pigmentation certain colours will appear less gloss and colour stable than others.

Film thickness per coat

Typical recommended specification range

Dry film thickness	30	-	35	µm
Theoretical spreading rate	21	-	14	m ² /l

Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Carbon steel	Sa 2½ (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Stainless steel	Cleanliness and surface profile corresponding to Sa 2½, Fine G (ISO 8503-2)	Cleanliness and surface profile corresponding to Sa 2½, Fine G (ISO 8503-2)
Aluminium	The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand	Dry abrasive blast cleaning

	abrasive pads to impart a scratch pattern to the surface and to remove all polish from the surface.	
Galvanised steel	The surface shall be clean, dry and appear with a rough and dull profile.	Light brush blasting using non-metallic abrasive leaving a clean, rough and even pattern.
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating

Drying and Curing time

Substrate temperature	5 °C	10 °C	23 °C	40 °C
Surface (touch) dry	1 h	45 min	30 min	15 min
Walk-on-dry	4 h	3 h	2 h	1.5 h
Dry to over coat, minimum	8 h	5 h	4 h	3 h

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage.

Dry to over coat, minimum: The shortest time allowed before the next coat can be applied.

Heat resistance

	Temperature	
	Continuous	Peak
Dry, atmospheric	300 °C	-

Peak temperature duration max. 1 hour.

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.

Product compatibility

Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product. Some examples are shown below. Contact Jotun for specific system recommendation.

Previous coat: zinc silicate, silicone acrylic, multipolymeric matrix
Subsequent coat: silicone acrylic

Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Shelf life at 23 °C

Silhouette Paints 24 month(s)

In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter

the paint quality is subject to re-inspection.

Caution

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product.

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

Application

Application methods

The product can be applied by

Spray:	Use air spray or airless spray.
Brush:	Recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.
Roller:	May be used for small areas. Not recommended for first primer coat. Care must be taken to achieve the specified dry film thickness.

Product mixing	Single pack
Thinner/Cleaning solvent	Thinner: Silhouette Thinner

Guiding data for airless spray

Nozzle tip (inch/1000):	15-17
Pressure at nozzle (minimum):	100 bar/1450 psi



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