JDTemp 400Alu

Product description

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

Typical use

Protective:
Designed as a heat resistant coating. Suitable for insulated and non insulated surfaces. Recommended as finish coat for insulated surfaces, in systems with suitable primers.

Colours

aluminium

Product date

Property	Test/Standard	Description
Solids by volume	ISO 3233	38±2%
Gloss level（GU60°）	ISO 2813	matt（0-35）
Flash point	ISO 3679 Method 1	26℃
Density	calculated	1.2Kg/L
VOC-China	GB/T23985-2009(ISO11890-1)	536g/L

The provided data is typical for factory produced products, subject to slight variation depending on colour.
Gloss description: According to Jindun Performance Coatings' definition.

Film thickness per coat

Typical recommended specification range

Dry film thickness	20μm - 30μm
Wet film thickness	53μm - 79μm
Theoretial spreading rate	18.8m^2/L- 12.6m^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	St 2 (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Stainless steel	The surface shall be hand ormachine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface and toremove all polish from thesurface.	Abrasive blast cleaning to achievea surface profile using approvednon- metallic abrasive media which is suitable to achieve a sharp and angular surface profile.
Aluminium	The surface shall be hand ormachine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface and toremove all polish from thesurface.	Abrasive blast cleaning to achievea surface profile using approvednon- metallic abrasive media which is suitable to achieve a sharp and angular surface profile.
Galvanised steel	The surface shall be clean, dry and appear with a rough and dullprofile.	Light brush blasting using non- metallic abrasive leaving aclean, rough and even pattern.
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating

Optimum performance, including adhesion, corrosion protection, heat resistance and chemical resistance is achieved with recommended surface preparation.

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 ratio（by volume）

Single pack

Thinner/Cleaning solvent

Thinner: Jindun Thinner No. 110

Guiding date for airless spray

Nozzle tip (inch/1000): 15-17

Pressure at nozzle (minimum): 100 bar/1450 psi

Drying and Curing time

Substrate temperature	5℃	10℃	23℃	40℃
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

For maximum overcoating intervals, refer to the Application Guide (AG) for this product.

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 physicaldamage.

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

Heat resistance

	Temperature	
	Continuous	**Peak**
Dry, atmospheric	600℃	-

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 Jindun for specific system recommendation.

Previous coat: epoxy, zinc silicate, silicone acrylic,

Subsequent coat: silicone acrylic

Packaging(typical)

	Weight	**Size of containers**
	(Kg)	(litres)
JDTemp600AL	19	20

The volume stated is for factory made colours.

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

JDTemp400Alu	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 and according to Jindun's technical documentation. 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. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Jindun representative for approval before commencing the work.

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.

Colour variation

When applicable, products primarily meant for use as primers or antifoulings may have slight colour variations from batch to batch. Such products and epoxy based products used as a finish coat may chalk when exposed to sunlight and weathering.
Colour and gloss retention on topcoats/finish coats may vary depending on type of colour, exposure environment such as temperature, UV intensity etc., application quality and generic type of paint.

Disclaimer

The information in this document is given to the best of Jindun's knowledge, based on laboratory testing and practical experience. Jindun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jindun's control. Jindun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jindun reserves the right to change the given data without further notice.

Users should always consult Jindun for specific guidance on the general suitability of this product for their needs and specific application practices.