



## Heat Resistant-600

### Product Description

Heat Resistant 600 is a silicone resin based coating. Aluminium shade is resistant up to 700 °C whereas black shade is resistant to 600 °C. It has good adhesion and hiding power. Heat resistant pigments inside increase its heat and corrosion resistance.

### Intended Uses

It is suitable for steel and aluminium surfaces. It can be used at surfaces like hot pipelines, smoke stacks, stoves, barbecues, fireplaces and exhaust pipes which are exposed to high heat.

### Physical Properties

<b>Physical State</b>	: Liquid
<b>Colour</b>	: Aluminium, Black
<b>Volume Solid (%)</b>	: Aluminium: 25 ±2, Black: 40 ±2
<b>Density</b>	: Aluminium: 1,15 ±0,05 kg/L, Black: 1,27 ±0,05 kg/L
<b>Gloss</b>	: Semi Gloss
<b>Flexibility</b>	: Good

### Application Data

<b>Mixing Ratio (volume)</b>	: Single component
<b>Application Methods</b>	: Airless spray, conventional spray, brush or roller
<b>Application Conditions</b>	: The temperature of the substrate should be minimum 3°C above the dew point of the air. Good ventilation is required.
<b>Thinner/Cleaner</b>	: Moravia 019 Thinner

### Guiding data for airless spray

<b>Pressure at nozzle</b>	: 15 MPa (150 kp/cm <sup>2</sup> 2100 psi)
<b>Nozzle tip</b>	: 0.013-0.015"
<b>Spray angle</b>	: 40-80°
<b>Filter</b>	: Check to ensure that filters are clean.

Aluminium	Dry (µm)	Wet (µm)	Theoretical Coverage (m <sup>2</sup> /L)
<b>Typical film thickness</b>	30	120	8,33
<b>Maximum thickness</b>	50	200	5,00

Black	Dry (µm)	Wet (µm)	Theoretical Coverage (m <sup>2</sup> /L)
<b>Typical film thickness</b>	25	63	16,00
<b>Maximum thickness</b>	30	75	13,33

**Surface Preparations**

All surfaces to be coated should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.

**Steel surface**

Blast-cleaning to Sa 2½ (ISO-8501). Power tool cleaning to min. St 2 (ISO 8501) may be acceptable, subject to exposure conditions.

**Coated surface**

Please contact Moravia office for further information.

**Drying Time**

Substrate Temperature	Touch Dry	Hard Dry	Over coating Data	
			Minimum	Maximum
10°C	7 hours	-	7 hours	
23°C	5 hours	-	5 hours	-
35°C	3 hours	-	3 hours	
170 °C	-	1 hour	-	

**Not: This product is silicon resin based. To obtain physical and chemical resistance it should be cured in a stove at 170°C for 1 hours after application. In marine environments, After the first application, the coating shall be exposed to high heat gradually (for example, 200 °C, 400 °C, 600 °C)**

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.

**Packing Size** : Aluminium: 15 Kg, Black: 20 Kg

**Storage**

The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated area and away from source of heat and ignition. Containers must be kept tightly closed.

**Health and Safety**

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale 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.

**For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.**

**Disclaimer:** The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.