HEAT-RESISTANT COATINGS · SILICONE

HSP 600M

High-heat-resistant silicone resin aluminium metallic paint

COLOUR
Aluminium metallic
semi-gloss

500–550 °C	0.97 g/cm³	35.5 %	15–20 µm	16–18 m²/l
Heat resistance	Density (25 °C)	Solids (by weight)	Max. dry film thickness	at 20 µm DFT

Product description

HSP-600M is a semi-gloss aluminium anticorrosive paint based on high-heat-resistant silicone resin with metallic pigments. It protects metal surfaces exposed to high temperatures from atmospheric corrosion up to 550 °C.

Application areas

- Metal surfaces exposed to high temperatures
- Atmospheric corrosion protection up to 550 °C

Advantages

- Easy to apply
- Semi-gloss appearance
- Corrosion protection up to 550 °C
- High wear and chemical resistance
- Excellent adhesion, quick drying

Position in the system

Heat-resistant coat — THIS PRODUCT
HSP-600M · 15–20 µm DFT

Substrate
Steel Sa 2½ / St 2 – coat within 30 min

High-temperature protection

Silicone resin metallic paint for hot metal

The binder decomposes at 500–550 °C; the metallic pigment remains stable up to 700 °C.

Technical data (at +20 °C)

Colour	**Aluminium metallic**	Curing	**30 min at 200 °C**
Density (25 °C)	**0.97 g/cm³**	Max. dry film thickness	**15–20 µm**
Solids (by weight)	**35.5 % (1 h / 200 °C)**	Coverage	**16–18 m²/l at 20 µm DFT**
Viscosity (DIN cup 4, 25 °C)	**30 s**	Thinner	**UP-006**
Application temperature	**min. +10 °C**	Shelf life	**6 months**
Heat resistance	**500–550 °C**		

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Application procedure

01
Surface preparation

Remove moisture, salts and rust by blasting to SIS 055900 Sa 2½ or mechanically to St 2; degrease with high-pressure water; grind weld spatter and sharp edges; vacuum or blow clean.

02
Mixing

Stir slowly; add UP-006 special thinner as needed.

03
Application

Apply by airless spray within 30 min of preparation, max. 15–20 µm DFT – thicker films may lose adhesion at high temperature.

04
Curing

Recommended curing: 30 min at 200 °C.

Heat resistance
500–550 °C
Metallic pigment stable up to 700 °C.

Film thickness
max. 20 µm
15–20 µm DFT by airless spray.

Coverage
16–18 m²/l
Single coat at 20 µm DFT.

Important: do not exceed 15–20 µm dry film thickness, otherwise adhesion problems may occur at high temperatures.

Packaging

- Original 15 kg packs

Storage

- Store unopened in original sealed packs in cool, dry areas, protected from frost.
- Shelf life: 6 months at +10…+35 °C.

Safety

- Wear workwear, goggles, mask and gloves.
- On contact wash with plenty of soap and water; if swallowed seek medical help.
- Apply only in well-ventilated areas; keep food and drink away.
- See the Safety Data Sheet.

Cleaning

- Clean tools before the material dries with UP-006 Thinner.

LEGAL NOTE

The explanations provided in this technical data sheet are based on test evaluations and results conducted according to relevant standards and are intended to guide applicators. As workmanship, weather conditions, construction, equipment used and other variables that may affect results are entirely beyond our control, UNICA does not provide any explicit or implicit warranty regarding this material. UNICA only guarantees that the material conforms to its product specifications, and its sole responsibility towards the buyer or user of this product is limited to the replacement value of the product in case of manufacturing defects. Under no circumstances shall UNICA be liable for any direct or incidental, special or consequential injury, loss or damage arising from the material or its application. UNICA shall not be held responsible in any way for any defects, alterations or changes in conditions in the substrate where its products are applied.

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