

MEGATHERM SILICONE RESIN PAINT



PRODUCT INFORMATION

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| Designation of type | ⇒ SI | State of 4/18 |
| Product description | ⇒ Highly heat-resistant single-coat paint, low in aromatics and free of heavy metals ⇒ SI 708.4 dark grey heat resistant up to 500 °C without loss of adhesion ⇒ SI 710 aluminium coloured heat resistant up to 650 °C without loss of adhesion ⇒ SI 711 black heat resistant up to 650 °C without loss of adhesion ⇒ Good protection against corrosion (SI 708.4 no resistance to water shocks) ⇒ Minor colour changes and loss of gloss above 230 °C ⇒ Good mechanical properties when air drying ⇒ Excellent adhesion to steel, aluminium, non-ferrous metals ⇒ Final hardness and corrosion resistance after heat treatment ⇒ Does not cause silicone damage when processing other coatings | |
| Application area | ⇒ SI 708.4 for interior use, for example furnaces, heating tunnels, electrical and gas heaters ⇒ SI 710, SI 711 for interior and exterior use for example funnels, barbecue devices, car silencers | |
| Binder | ⇒ Silicone resin | |
| Substrate/Preparation | ⇒ Steel: at least degrease, better hand or eccentric sanding St 2-3 (P80-P220) or sand blasted to Sa 2 ½ DIN EN ISO 12944, part 4 ⇒ Cast iron: sand blasted to Sa 2 ½ DIN EN ISO 12944, part 4 ⇒ Aluminium: sweeping or hand sanding ⇒ Stainless steel: at least degrease, better slightly sanding or pickling ⇒ All surfaces dry, free of fat, oil, grease and dirt | |
| Processing | ⇒ Gravity feed gun: 1.3-1.7 mm nozzle, 3-4 bar atomisation pressure, 10-15 % thinner VS 50 ⇒ HVLP: 1.4-1.7 mm nozzle, 1.5 -2.0 bar atomisation pressure, 5-10 % thinner VS 50 ⇒ Double-diaphragm-pump: 1.0-1.2 mm nozzle, 2.5-3.5 bar atomisation pressure, material pressure 0.8-2.0 bar, 5-10 % thinner VS 50 ⇒ Airmix: 0.18-0.23 mm nozzle, 3-4 bar atomisation pressure, material pressure from 70 bar up, 0-5 % thinner VS 50 ⇒ Pre-spray once in difficult-to-reach areas ⇒ Dependent on film thickness 1-2 spraying cycles, 3-6 minutes intermediate flash off time ⇒ Ambient temperature: at least + 10° C, relative air humidity: max. 75 % ⇒ Object temperature: at least. + 5° C and at least 3° C above the dew point | |
| Viscosities | ⇒ Viscosity at delivery: 30-40 sec. 4 mm / DIN ⇒ Compressed-air spraying: 20-30 sec. 4 mm / DIN ⇒ Double-diaphragm-pump: 25-35 sec. 4 mm / DIN ⇒ Airmix: ca. 40 sec. 4 mm / DIN | |

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| Thinner | ⇒ VS 50 |
| Drying time at 20° C | ⇒ Tack-free after approx. 45 minutes ⇒ Ready for installation after a few hours ⇒ Final hardness after heat treatment (at least 200° C) |
| Heat hardening | ⇒ Flash off time before heat hardening 10-15 minutes ⇒ 90 minutes at 200° C or ⇒ 60 minutes at 220° C or ⇒ 45 minutes at 250° C |
| Colours | ⇒ SI 708.4 dark grey, SI 710 aluminium coloured, SI 711 black ⇒ Limited availability for all SI-types |
| Degree of gloss | ⇒ Silk-matt before and matt after heat treatment |
| Specific weight | ⇒ Ø 1.3 g/cm ³ |
| Solid matter content | ⇒ Ø 68 % (percent by weight) |
| Solvent content | ⇒ Ø 32 % (percent by weight) |
| Film thickness | ⇒ 40-60 µm dry film thickness / 75-115 µm wet film thickness ⇒ At sand blasted to Sa 2½ (roughness depth 45 µm) at least 60 µm dry film thickness |
| Theoretical coverage | ⇒ Ø 9.0 m ² /kg at 40 µm dry film thickness |
| Practical consumption | ⇒ Compressed-air spraying: approx. 0.16 kg/m ² or 6.3 m ² /kg at 40 µm dry film thickness ⇒ Airless: approx. 0.21 kg/m ² or 4.8 m ² /kg at 60 µm dry film thickness |
| VOC-value ready to use | ⇒ 480 g/l ⇒ Limiting value industrial coating: no specification Coating of other metal and plastic surfaces |
| Standard packaging | ⇒ 10 kg / 25 kg |
| Shelf life | ⇒ At + 10 to + 30° C and unopened packaging ½ year |
| Material safety data sheet | ⇒ No. 015 |
| Flash point | ⇒ > + 23° C |