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TECHNICAL DATA SHEET

2K Heat MIO

Two component, low solvent content, silicone resin based heat resistant paint with active anticorrosion pigments.

Colours:	Metal NL-0604
Field of application:	Suitable for aesthetic coating of metal surfaces exposed to high temperatures for long periods of time (fireplaces, ovens, garden grills, barbecues, smoke pipes, exhaust pipes, other heating appliances, etc.). Grants protection up to medium category corrosive environment.
Appearance:	A component: dark grey homogenous suspension B component: pale yellow liquid
Rel. Density: (23°C):	A component: 1,5 g/cm ³ B component: 0,88-0,90 g/cm ³
Non volatile content: (180°C/30 min):	A component: min. 65 m/m%
Efflux time (DIN4, 23°C):	min. 24 s
Mass mixing ratio:	A:B 30:1 Application process can be start 20-30 minutes after the homogenization of the components.
Shelf life:	6 months from production if stored between +5 and +25°C.

PROPERTIES AND APPLICATION INSTRUCTIONS (MIXTURE)

Substrates:	Cold- or hot rolled steel, cast iron
Surface pre-treatment:	Substrates must be clean, dry and free from any contamination. All oil, dirt, grease, dust, foreign material and oxide layer must be removed prior to coating. The thoroughness of surface preparation has a great influence on quality and durability of the coating. Blast cleaning provides a roughened surface that improves adhesion. Abrasive blast clean to Sa 2½ (ISO 8501-1:2007).
Processing:	It can be applied by traditional or HVLP equipment as well. By conventional air spray 1,3-1,5 mm nozzle and 2,5-4 bar atomizing

pressure is advised. Defects and scratches after assembly can be corrected by a thin layer („mist spraying”) of Heat Mio paint.

Drying and cure:

Coating reaches tack free condition at room temperature within 40 minutes, but for obtaining the scratch resistance necessary for the assembly a 30 minutes forced drying at min. 100 °C, max. 150 °C temperature is needed. Prior to that paint must be dried for 20-30 minutes. Higher curing temperature improves scratch resistance. Coating's optimal protection capability is reached 48 hours after painting. Only after this period it is suggested to impose the coating to outdoor use and higher – up to 300 °C – temperatures, by applying moderately slow heating-up method.

Rec. layer thickness:

150-170 µm wet / 80-90 µm dry

Heat resistance:

maximum 300°C

Theor. spreading rate:

5 m²/kg 70 µm DFT

Anticorrosive properties:

By the application of Heat Mio paint a long term corrosion protection can be aimed in outdoor environment in moderately polluted atmosphere of urban and industrial areas, according to MSZ EN ISO 12944-2:2000 standard. The coating can be applied in C1/C2 and C3 corrosion category environments. To reach the proper and lasting anticorrosive effect a thorough surface preparation is necessary, recommended layer thickness shall be observed and the overheating of the appliance must be avoided.

Thinning:

Paint is delivered with optimal viscosity for spraying. If thinning is still necessary, it can be thinned with Heat thinner.

Storage & Pot life:

Material - stored in a dry, shaded environment away from heat, frost & ignition sources – remain usable for 24 hours

Clean up:

Tools and surfaces contaminated with paint can be cleaned with some organic solvent (e.g. aromatic thinner).

Safety precautions:

Heat MIO paint is for use only by professional applicators in accordance with information in this Technical Data Sheet and the applicable Material Safety Data Sheet (MSDS). Refer to the product MSDS before using this material.

We recommend the field of application and usage technologies according to our best technical knowledge. These recommendations do not substitute for the detailed application technology / method statement which has to be developed with respect to the local circumstances and application requirements. In this sense this TDS should be considered as information only.