



# HIGH HEAT

## PRODUCT DESCRIPTION

A silicone resin based heat & corrosion resistant coating.

## PRODUCT FEATURES

High Heat Coatings not only offers excellent temperature protection, but when correctly applied it will provide excellent corrosion protection as well.

## TECHNICAL INFORMATION

Colour:	Black & Silver
Appearance:	Matt finish
Generic type:	Silicone
Volume solids:	45 ±2%
Viscosity @ 25°C :	55Ku
Spreading rate:	7 - 9m <sup>2</sup> /litre (depending on profile)
Recommended DFT\coat:	50 microns
Temperature resistance:	Up to 1 000°C (dry)
Solvent:	Toluene Thinners
Washability:	10 000 scrubs minimum
Mix ratio:	Single pack ready for use
Packaging:	1 & 5 litre

## SURFACE PREPARATION

All surfaces are to be clean & dry. Remove all oil, grease & other contaminants with waterbased degreaser, followed by a fresh water wash. Remove rust & millscale preferably by abrasive blast cleaning to Grade SA2.5 of International Standard ISO 8501-1:1988 with a blast profile of 30 microns. High Heat Coating must be applied before oxidation of the steel occurs. If oxidation does occur, the entire area is to be re-blasted to the above specifications. Mechanical cleaning to Grade St 3 of the above standards can be done in those areas where blast cleaning is not possible, this however, can result in a shorter maintenance free life.

**NB: Under no circumstances is the metal to be primed with anything but High Heat coating.**

## APPLICATION

In order to obtain the best performance, at least 3 coats of 50 microns dry film each are required. Allow at least 1 hour between coats at 25°C.

*Curing of High Heat coatings:*

For solvent resistance heat to 200°C for 2 hours.

For corrosion resistance heat to 300°C for 2 hours.

For heat resistance heat above 400°C for at least 3 hours.

Airless spray:	No dilution recommended Nozzle pressure: 150 – 200 bar Nozzle orifice: 0.015"
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Conventional spray:	10% dilution recommended Use only Toluene Thinners
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Air pressure:	2 – 3 bar
Nozzle orifice:	1.5 – 2mm

Brush and Roller:	Suitable as supplied
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Clean up:	Use Toluene Thinners only
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## ENVIRONMENT

It is recommended that application be confined to the following:

Surface temperature: Min. 5°C Max. 40°C

Ambient temperature: Min. 5°C Max. 40°C

Relative humidity: Min.0% Max.85%

Or at least 3°C above Dew point

## POT LIFE

Infinite, when not subjected to temperatures in excess of 50°C. Keep sealed when not in use, to avoid evaporating of solvent.

## DRYING TIME

High Heat coatings will dry to the touch within 30 minutes at 25°C.

## OVERCOATING TIMES

Once fully cured the coating must be thoroughly sanded to provide a key for subsequent coats. When not cured, the High Heat coating can be over coated, once touch dry, ±30 minutes at 25°C. All the above are given as guidelines & can not be assumed to be absolute, as variances will result from differences in film thickness, environment & surface temperatures.

## STORAGE AND HANDLING

Store away from direct sunlight, open flames & severe cold.

Shelf life: 1 year in original sealed containers.

Flash point: -5°C

## LIMITATIONS

Unless correctly cured, High Heat coating will not provide, temperature & corrosion resistance.

## SAFETY PRECAUTIONS

Work with PVC gloves & safety glasses when using High Heat coating. When spraying with High Heat coating, always wear a respirator. This product contains flammable materials. Keep away from sparks & open flames & no smoking should be permitted in the area.

KEEPOUTOFREACHOFCHILDREN.

Information Provided is based on Laboratory evaluations and data believed to be reliable.  
Recommendations are given in good faith but without warranty. It is the user's responsibility to determine the suitability for their own use.  
It is not to be considered a guarantee of the products properties.

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