Technical Data Sheet

Hi-Heat 6600

Heat Resisting Silicone Aluminium

Product Description

Hi-Heat 6600 is a single component polysiloxane solvent based coating. It is formulated using heat resistant silicone binders and aluminium pigments to withstand high temperature environments.

Recommended Use

Suitable for protection of steel substrates with temperature exposures of up to 600°C in a wide range of industrial environments when applied over KCC Galvany products.

Product Information

Binder	:	Polysiloxane
No. of Components	:	1
Solids (% by Volume)	:	23 ± 2 %
Flash Point	:	-4°C (when mixed)
Colour	:	Aluminium
Finish	:	Metalic

Application Information

Substrate	:	Steel
Recommended No. of Coats	:	2
Recommended Wet Film Thickness	:	85 to 110 µm / Coat
Recommended Dry Film Thickness	:	20 to 25 µm / Coat
Theoretical Spreading Rate	:	9 to 12 m^2 / L / Coat
Specific Gravity	:	Approx. 1.04

Application Methods

Applied By : Spray / Airless Spray or Brush/Roller (for stripe coat and small areas only)

* Brush and Roller recommended for stripe coating and small areas only
* Airless Spray Recommended Tip Size: 0.43 - 0.54 mm (17 - 21 thou)
* Airless Spray Recommended Pressure: 110 - 150 kg/cm2 (1600 - 2100 psi)

Thinner : Thinner 56 (5% maximum addition)

Clean Up : Cleaner 12

Packaging & Storage

Packaging	:	5.0 Litres 20.0 Litres
Shelf Life	:	12 months - Unopened
Storage	:	Cool, dry and well ventilated area away from heat and direct sun light. Lid must be kept tightly closed.

Curing Time

Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval	
			Minimum	Maximum
15 °C	7 hours	28* hours	24 hours	Indefinite
25 °C	5 hours	18* hours	16 hours	Indefinite
35 °C	2 hours	6* hours	8 hours	Indefinite

*The properties above may vary with surface temperature, site environment, film thickness, etc.
* Full cure and hardness will only be obained after curing at a minimum temperature of 200°C

Typical Painting System

System	Product	No. of Coats
Primer	Recommended KCC Galvany range of products	1
Intermediate	Hi-Heat 6600	1
Finish	Hi-Heat 6600	1
Repair Coat	Touch up using Hi-Heat 6600	1

Surface Preparation

All surface to be coated should be clean, dry and free from contamination as in accordance to ISO 8504. Oil and grease must be removed by solvent cleaning as in accordace to SSPC - SP1.
Abrasive blast clean to Sa 2.5 (ISO 8501-1:2007) or SSPC-SP6 or power tool clean to St.3 is recommended. If oxidation has occured between blasting and application, the surface should be reblasted to the specified visual standard. A surface profile of 25 to 50 microns is recommended.

Preapplication Conditions

1) The surface temperature should be 3°C above the dew point and should not exceed 50°C.
2) The relative humidity should be between 60% and 85%.
3) Paint application shall not commence when there is a likelihood of an unfavourable change in weather condition within 2 hours after painting.
4) Stir paint with a mechanical stirrer until uniformly mixed prior to application.

Product Limitations

Hi-Heat 6600 is not recommended for continuous immersion and is not suitable for exposure to acidic and alkaline environments.
Excessive thickness or over applications of Hi-Heat 6600 can lead to improper curing of paint film which will require complete removal of the affected areas via abrasive blasting.
Coating will only full cure upon exposure to a minimum of 150°C for 2 hours. Product should not be exposed to temperatures above 600°C.
Best results in terms of sheen and colour appearance will always be obtained by conventional spray applications. Appearance may vary depending on application method used. Using a mixture of application methods is not recommended.

Safety Precaution

This product is flammable and must be kept away from any source of ignition. 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. Keep out of reach of children.