

ADVOTHERM HHR 3160

(High Heat Resistant - 600°C Silicone Coating)

GENERAL DESCRIPTION

A single pack coating specially formulated on Silicone Resin and pigmented with Aluminium flakes to protect steel surfaces operating at temperatures up to 600°C

RECOMMENDED USE

On Stacks, Boiler casings, Exhaust pipes, hot Pipelines, pumps & manifolds, Process vessels and equipments which reach temperature up to 600°C.

If skin temperature is less than 300°C, please do not use this product.

PHYSICAL DATA

Colour	Aluminum
Finish	Metallic Lustrous
Volume Solids (by ASTM D 2697)	18 ±2%
Wet Film Thickness	118 – 138 µm per coat
Recommended Dry Film Thickness	20 – 25 µm per coat
Theoretical Spreading Rate	10 m ² per litre @ 20µm DFT
Flash Point	>26°C

Performance Data

5 cycles Quenching Test	Passes 600°C
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DRYING TIME:

Drying times are generally depend on air circulation, ambient temperature, film thickness and number of coats, and will be affected accordingly. The figures given in table below are indicative only.

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TEMPERATURE		15°C	25°C	35°C
INDUCTION TIME		20 Minutes	10 Minutes	7 Minutes
TOUCH DRY		30 minutes	15 minutes	5 minutes
HARD DRY		24 hours	18 hours	12 hours
OVERCOATING INTERVAL	MINIMUM	24 hours	18 hours	12 hours
	MAXIMUM	Indefinite	Indefinite	Indefinite
POT LIFE		N/A	N/A	N/A

THINNER RECOMMENDED	Advotharm Thinner
SHELF LIFE	12 months @27°C

LIMITATION	
POT LIFE	If viscosity of mixed paints reaches more than double of initial viscosity do not apply the mixed paint anymore.
BLASTING OR APPLICATION	Do not carry out an application when: Humidity >90% Ambient temperature < 10°C Substrate temperature is less than 3°C above the dew point.

SURFACE PREPARATION	Accumulated dirt and solvent salts must be removed by brush followed by fresh water cleaning. Repeat the process still the surface is free from chloride & dry it. Oil and grease should be removed following SSPC-SPI solvent cleaning.
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ABRASION BLAST CLEANING	Abrasion blast clean to minimum Sa 2½ (ISO 8501-1:2007) or SSPC-SP10. Surface profile would be sharp and angular to 20 – 25 micron. Coating should be applied prior to surface oxidation. If surface oxidation has occurred, reblast to visual standard. Surface defects like weld spatters, holes etc. must be taken care.
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MIXING METHOD	Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Agitate Base (Part A) with pneumatic stirrer add slowly hardener (Part B) for 3-5 minutes till the mixture becomes homogeneous. Do not add thinner. If ambient temperature >40°C. A small quantity of Advotherm Thinner can be added.
AIRLESS APPLICATION	Pump Ratio: 60: 1 Tip size : 0.021 – 0.031 mm Air pressure: 2.5 – 3 Kg/cm ²
CONVENTIONAL AIR SPRAY	N/A
BRUSH APPLICATION	Can be applied by brush without thinning. Avoid runs or sags. Do not apply when humidity is very high (>90°C) or the ambient temperature is below 3°C of dew point. Coating thickness should not exceed 30 microns/coat.
STORAGE	The product must be store below 25°C and in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space, and away from source of heat and ignition. Containers must be kept tightly closed.
SAFETY PRECAUTIONS	Keep the material away from heat, spark, and direct flame. In case of contamination, rinse with fresh running water and seek medical help at once. Provide sufficient ventilation when working with solvent based coatings in confined spaces and stagnant air. Follow Local and National Safety Rules.
WORK STOPPAGE	Clean the hoses, gun or spray equipment with water immediate after application. Do not allow material to remain in the equipment system.

CLEAN UP	Clean all equipment thoroughly with water immediately after use. As part of good working practices, spray equipment should also be flushed periodically during the working day. The frequency of cleaning depends on factors such as the volume of material sprayed, ambient temperature, and the duration of any delays or downtime. Dispose of all surplus materials and empty containers responsibly, in compliance with applicable regional regulations and legislation.
NOTE	Thinner consumption and loss factor in practical coverage of paint depends upon the site condition. Avoid inhalation of solvent vapour or paint mist by using facial mask. Also use gloves and goggles to protect against direct contact of paint with skin and eyes. This cancels all previous information sheets for this Product. Information given here is in good faith without warranty.
DISCLAIMER	The information provided in this document is based on Advance Paints best knowledge, derived from laboratory testing and practical experience. As Advance Paints products are considered semi-finished goods, they are often used under conditions beyond the company's control. Therefore, Advance Paints can only guarantee the quality of the product itself and cannot assume responsibility for its performance under all circumstances. Minor variations in the product may occur to meet local requirements. Advance Paints reserves the right to amend the provided data without prior notice. Users should always consult Advance Paints for specific guidance on the suitability of this product for their particular needs and application practices.

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This data sheet is not exhaustive. For further information or additional details, please reach out to our Technical Service Team.

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