

AERO2K® 650 Heat Resistant

INTERIOR & EXTERIOR

SOLVENT BASED

2K

Description:

A two component, solvent based, inert polymeric matrix high temperature aerosol coating based on an air drying/cross linking silicone binder, pigmented with special high temperature colours.

Intended Uses:

Protect & enhance components exposed to extreme temperatures with the AERO2K® 650 Heat Resistant coating. This specialized two component coating is engineered to withstand continuous dry heat temperatures up to 650°C (1202°F) and intermittent bursts even higher.

AERO2K® 650 Heat Resistant is designed for the protection of steel and is ideal for exhaust manifolds, engine components, furnaces, flare stacks, kilns, flues, mufflers, hot piping, and other high temperature applications. It offers excellent adhesion, durability, and resistance to cracking, peeling, and discolouration under extreme thermal stress.

Features & Benefits:

- Professional 2K High Temperature Formula – Specifically designed to withstand continuous temperatures up to 650°C.
- Superior Heat Resistance – Protects against cracking, peeling, and discolouration caused by extreme heat cycles.
- Excellent Adhesion – Bonds strongly to metal & other high temperature materials.
- Durable & Long Lasting – Maintains its protective & cosmetic properties under demanding thermal conditions.
- Ambient Curing – Hard enough to handle within 4 hours and develops full properties after initial heating up to 200°C.

Certifications:

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Technical Data:

Product Physical Form	Aerosol
Binder Type	Two component modified silicone (Containing base & hardener)
Colour	RAL 1003 Signal Yellow, RAL 3001 Signal Red, RAL 5005 Signal Blue, RAL 9004 Signal Black & RAL 9006 White Aluminium
Appearance	Smooth matt
Recommended DFT	40 – 50 µm (Dry Film Thickness)
Spreading Rate	0.75 – 1.1 m ² / Can per coat, allowance should be made for site application losses & surface profile
Number of Coats	2
Method of Application	Aerosol
Pack Size	400 ml (12 x cans per carton)
Storage	Store out of direct sunlight in dry conditions between 15°C and 25 °C
Shelf Life	12 months when stored as recommended in original un-opened containers

AEROSOLS: AERO2K®

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

Important Information:

- Always consider a test patch to check suitability & adhesion.
- Always consult with technical department if unsure.
- Technical & application data herein is for the purpose of establishing a general guideline of the coating application procedure.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection & verification of the performance and use of the coating.
- Do not use material longer than 24 hours after activation at room temperature (20°C). The processing time depends on the ambient temperature. Higher temperatures reduce the pot life. Activation initializes crosslinking reaction which consequently leads to gelling after pot life. The product must not be used after pot life.

Surface Preparation:

In general, the following guidelines for preparation should be adhered to. Always consult for a detailed specification.

- The areas to be coated should be dry, firm, solid and free from dust, oil, fats, and other contaminants.
- Oil can be removed using **Hydrosolve Degreaser**.
- Fungal growth or algae can be removed using **Fungicidal Wash**.
- Laitance and loose particles must be removed thoroughly i.e., grinding /high pressure cleaning.

Accumulated dirt and soluble salts must be removed. Dry bristle brushing will normally be adequate for accumulated dirt. Soluble salts should be removed by freshwater rinsing. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Abrasive Blast Cleaning and Mechanical Preparation – Steel

Abrasive blast clean to SA 2½ (ISO 8501-1:2007) or SSPC-SP6. If oxidation has occurred between blasting and application of AERO2K® 650 Heat Resistant, the surface should be re-blasted to the specified visual standard. Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.

A surface profile of 25 – 50 microns is recommended

Hand or Power Tool Preparation

Any coating on the surface must be removed prior to the application of AERO2K® 650 Heat Resistant. Hand or power tool clean to a minimum of St3 (ISO 8501-1:2007) or SSPC-SP3. Note, all scale must be removed and areas which cannot be prepared adequately by chipping or needle gun should be spot blasted to a minimum standard of Sa2½ (ISO 8501-1:2007) or SSPC-SP6. Typically, this would apply to C or D Grade rusting in this standard.

Primed Surfaces

AERO2K® 650 Heat Resistant is suitable for application to un-weathered steelwork freshly coated with zinc silicate shop primers.

If the zinc shop primer shows extensive or widely scattered breakdown, or excessive zinc corrosion products, overall sweep blasting will be necessary. Other types of shop primer are not suitable for overcoating and will require complete removal by abrasive blast cleaning. Weld seams and damaged areas should be cleaned to Sa2½ (ISO 8501-1:2007) or SSPC-SP6.

Aluminium Metal Spray

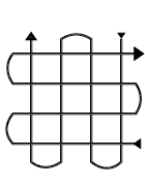
Metal sprayed surfaces should be fresh, clean, and free from moisture or surface contamination.

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Application:

HOW TO ACTIVATE THE CAN				
	Before activating Shake Can Well		Remove button, flip can, attach to pin.	
			Press yellow button until it clicks.	
				After activation, shake for 2 min, then rest can for 15 min

			
Clean & Prepare Surface	Shake Can Well	Spray In Light, Even Coats.	Allow To Dry

Application Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	5°C*	5°C	No lower limit
Maximum	45°C*	45°C	100%

*Or 3°C above dew point

Drying & Overcoating Information:

Touch Dry	4 hours @ 25°C
Overcoating Time (Min)	8 hours @ 10°C 6 hours @ 15°C 4 hours @ 25°C 2 hours @ 30°C
Overcoating Time (Max)	48 hours @ 25°C
Hard Dry	16 hours @ 23°C
Full Cure	Please note this product is ambient curing – Hard enough to handle within 4 hours and develops full properties after initial heating up to 200°C.
Extra Information	A curing temperature below 10°C is not recommended, adequate ventilation should be maintained during application and curing.

Systems:

Consult with Specialized Coating System for application specific recommendations.

Safety Information:

- Refer to product SDS for health & safety prior to using products.
- Always wear safety clothing / protection. Respirators, eye protection & skin protection.
- Apply in well-ventilated areas

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