LCHP

SHIMITA SYSTEMS

AERODYN 400

Features:

- Thermal Insulation
- Reduces Heating or Cooling/HVAC load
- Solar Reflection
- Aniti-Corrosion effect
- Condensation prevention

INSULATING PAINT

Personal Proctection

Suitable to acheive factory safe temperatures over any hot surfaces. Thermal Conductivity (W/m·K): 0.025 – 0.035

Easy Application

Easily applied and cured to required thickness. Coverage (m^2/L): 1.5 – 2.0 @ 300 µm DFT

Equipments/Process Lines

Top coat on insulation over equipments/pipe lines to acheive up to 30°C temp drop

Good Adhesion and Water Repellence

Acheive excellent adhesion on prepared surfaces and hydrophpbicity

Product Overview

AERODYN 400 is a high-performance aerogel-based insulating paint designed to provide thermal insulation, personnel protection, condensation prevention, and energy savings through thin film application. Aerogel Thermal Insulation Coating is a water-based, lightweight insulating coating incorporating nano-porous silica aerogel technology.

Applications

- Industrial Equipment and Process Lines (Personnel Protection Coating)
- Steam Lines, Valves, Tanks, Reactors
- HVAC Ducting and Metal Structures

Performance Highlight

Provides up to 30°C surface temperature reduction at elevated substrate temperatures (tested at recommended Dry Film Thickness 300 um under controlled conditions).

Technical Specifications

AERODYN 400™

TECHNICAL SPECIFICATIONS:

Operating Temperature:	-30°C to 400°C
Application Temperature	-10°C to 50°C
Application Method:	Brush / Roller / Airless Spray
Wet Film Thickness:	80 -100 microns per coat
Recommended Coats:	3 - 4 coats.
Dry Film Thickness:	165–275 microns
Coverage:	~ 2.5 – 4 m²/L (3 coats)
Volume Solids:	69%
Dry to Touch:	~ 4 hours @ 25°C
Full Cure:	24 hours

TECHNICAL CHARACTERISTICS:

Appearance:	White
Solid Content (%):	63.95 ± 2% (Laboratory measured)
Viscosity @ 25°C:	6165 cP (Brookfield)
Wet Density:	0.9763 g/cc (Lightweight system)
Recommended WFT (per coat):	~400–600 microns (Application dependent)
Recommended DFT (per coat):	~300–400 microns (Multi-coat system)
Application Temperature:	5°C to 45°C (Ambient conditions)
Drying Time (Touch Dry):	2–4 hours (Environmental dependent)
Recoat Interval:	4–6 hours (Ensure proper curing)

Additional Information

- Surface Preparation: SSPC-SP2 / SP3 / SA2.5
- Packaging: 5 L and 20 L packs
- Low VOC formulation
- Storage Life: 6 months in sealed condition
- Designed for industrial and commercial application
- Typical consumption: 0.7 – 1.5 kg/m²

All specifications are as per findings of tests conducted at reputed laboratories. The manufacturer does not claim performance guarantee for any application. Find out more about our products on our website.- **lchpaerogels.com**

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