



# THERMOLINC® GENESIS

## DESCRIPTION

ThermoLinc® Genesis coating is a unique insulation solution that exhibits excellent thermal, corrosion and durability properties. This coating has the ability to operate at temperatures up to 204°C (400°F) and conforms to complex geometry.

With a team supported by our vast engineering expertise and testing lab, we are able to formulate advanced coating solutions to meet a variety of customer needs.

## APPLICATION EXAMPLES

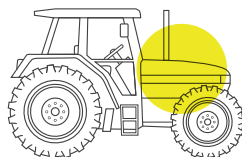
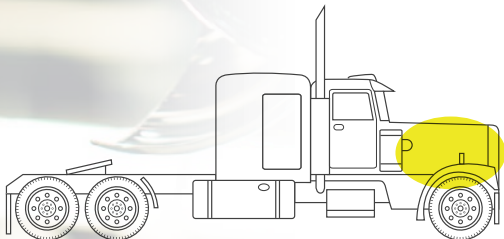
- ▶ EGR components
- ▶ Electrical components
- ▶ Engine manifolds
- ▶ Exhaust pipes
- ▶ Header pipes
- ▶ Industrial pipes
- ▶ Fire wall
- ▶ Cab Housing

## INDUSTRIES

- ▶ Aerospace
- ▶ Agriculture
- ▶ Automotive
- ▶ Defense
- ▶ Energy
- ▶ Heavy truck
- ▶ Marine
- ▶ Oil and gas

## PRODUCT BENEFITS

- ▶ OEM approved
- ▶ Strong adhesion
- ▶ Chemical resistance
- ▶ High-build characteristics
- ▶ Eliminates insulated jackets and blankets
- ▶ Conforms to complex geometries
- ▶ Color availability
- ▶ Moisture resistant
- ▶ Impact and abrasion resistant



PREMIUM PROVEN QUALITY SOLUTIONS

# THERMOLINC® GENESIS

## TESTING MATRIX

ATTRIBUTE	VALUE	STANDARD
Coating Fitness	No delamination, cracking, peeling, embrittlement, adhesion or co-adhesion issues	Proprietary Lincoln Industries test
Cold Cracking	No delamination, cracking, peeling, embrittlement, adhesion or co-adhesion issues	Proprietary Lincoln Industries test
Chemical Resistance	No loss of adhesion or coating deterioration to the following chemicals: engine oil, engine de-greaser, antifreeze, windshield fluid, water, brake fluid, chrome polish, aluminum polish, diesel fuel, biodiesel, diesel heat, DEF, ATF, sulfuric acid and hydrochloric acid	Proprietary Lincoln Industries test, < 40 hr. immersion
Flammability	Flame Spread Index (FSI): 5 Smoke Developed: 5 Toxicity: 0"	ASTM E-84
Gravelometer	No cracking, chipping or coating removal	SAE-5400
High Pressure Wash Adhesion	No loss of coating adhesion	Proprietary Lincoln Industries test
Neutral Salt Spray	No delamination, cracking, peeling, embrittlement, adhesion or co-adhesion issue	ASTM B-117
Pull Off Adhesion	132.8 PSI	ASTM D-4541
Vapor Transmission	0.635 g/h-m <sup>2</sup>	ASTM E-96, Method E

## THERMAL PROPERTIES

ID AND CONDITION	NOMINAL TEMPERATURE (°C)	ACTUAL TEMPERATURE (°C)	SPECIMEN RESISTANCE (M <sup>2</sup> -K/W)	SPECIMEN CONDUCTIVITY (W/M-K)
Coating on Al Substrate Using Original Thickness	-40	-40	0.0421	0.0701
	25	25	0.0364	0.0810
	100	100	0.0264	0.1119
	200	200	0.0178	0.1660

Independent thermal evaluation: thermal conductivity value determined by comparative testing.

Thermal properties are dependent on thickness required to insulate a given substrate.

**Genesis 301** k(eq<sub>v</sub>)= ~0.081 W/m-k at 25°C (ASTM C518), insulating temperatures: -40°C (-40°F) to 204°C (400°F)

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