

Thermaline® Heat Shield



A corrosion-resistant, inorganic polymer that protects steel over a wide range of cryogenic and elevated temperatures. Fortified film allows early handling without a heat-cure.

PRODUCT DETAILS Thermaline Heat Shield is an inert multi-polymeric matrix coating that satisfies the NACE Standard Practice SP0198 for the protection of both carbon and stainless steels operating at elevated temperatures under insulation. This unique film is reinforced with both aluminum and micaceous iron oxide flake that provides an outstanding barrier against wet/dry and thermal cycling corrosive conditions often seen under insulation. This versatile product is self-priming and can be used for all piping or equipment subjected to either cryogenic or high heat exposures. The coating is fortified making in-shop applications and handling possible without a heat-cure.

APPLICATIONS

PIPING
PROCESS VESSELS AND MODULES
VALVES
HEAT EXCHANGERS
DUCTWORK
STACKS
INSULATED EQUIPMENT

FEATURES

- › Versatile use over a wide range of temperatures from -321 to 1200°F (-200 to 649°C)
- › Excellent resistance to cryogenic and high temperature thermal shock
- › Multi-filler reinforced film for superior corrosion protection for longer service life
- › Fortified for quick shop handling properties without heat cure
- › Suitable for insulated or uninsulated steel applications
- › Complies with NACE SP0198 for the protection of carbon or stainless steel substrate under insulation
- › Dry to handle in 5 hours with 75°F cure

Thermaline® Heat Shield

Quality Product Backed by Quality Service

- › Carboline Company has been solving tough corrosion and fireproofing problems since 1947
- › Industrial service centers and sales offices located around the world
- › Over 20 worldwide manufacturing locations with a global network of sales and technical support
- › Industry leading field service and technical engineering support team
- › Certified to ISO 9001

Reasons To Use Thermaline Heat Shield

PERFORMANCE FEATURE	ADVANTAGE	BENEFIT
Inorganic copolymer formulation	Coating film maintains its integrity at temperatures up to 1200°F (650°C)	Long service life for steel substrates under wet insulation at elevated temperatures
Aluminum and micaceous iron oxide reinforced, barrier film	Excellent thermal shock resistance and barrier properties	Longer service life at elevated temperatures with wet/dry cycling
Fortified film for early film hardness	Baking is not necessary to prevent handling damage	Reduces cost, speeds assembly, production and shipping
Self-priming coating	No separate primer required	Less errors; only one product needed for project
Protects steel from corrosion even when air dried	Hot, warm and ambient surfaces can be sprayed together	Avoids segregating items for other coatings, saves time
Can be applied to surfaces up to 350°F (177°C)	Can be applied during short shut-down periods or when operating	Keeps costs down and gets more done in shut-downs



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