

Carbotherm® 3300



Carbotherm 3300 is a high-grade, liquid-applied, insulative coating. It is ideal to shield personnel from hot surfaces by providing insulating properties.

PRODUCT DETAILS Carbotherm 3300 is a unique formulation blend of ceramic and special fillers in a heat stable acrylic binder system. It can be used in a variety of applications that will keep structures or vessels cooler from solar exposures and reduce heat transfer into or out of a structure. It provides a thermal protective barrier to protect workers from hot surfaces while offering insulation properties to either hot or cold surfaces. This product can help minimize solar radiation to structures or vessels and help maintain a cooler operating temperature. It offers insulation value in keeping buildings or storage tanks cooler during the summer; or warmer during the winter by minimizing thermal transfer through its insulative film. It can also be used to reduce or eliminate “sweating” of cold surfaces.

APPLICATIONS

WORKER PROTECTION

Hot process piping
Boiler skins
Steam generator lines/housings

THERMAL INSULATION

LP tanks
Pressure vessels
Ductwork (maintain heat)
Ceilings
Fuel storage tanks

SWEATING SURFACES

Condenser boxes/Vessels

SOUND PROOFING

Engine Rooms
Mechanical Rooms

FEATURES

- › Protects personnel; safer work environment
- › Conserves energy; saves money
- › Tolerates expansion/contraction of substrate
- › Low odor; Low VOC's
- › Cleans up easily with soap and water
- › Greatly reduces solar heat transfer
- › Adheres to hot and cold surfaces -60 to 350°F (-51 to 177°C)
- › Product can insulate surfaces to 350°F (177°C)
- › Quick, easy repairs
- › Reduces operating costs
- › Keeps surfaces cooler
- › Can easily be applied over complex geometries
- › Extremely cost effective compared to other more labor intensive options
- › Extremely safe - contains no chlorides, no VOC's, no heavy metals

Carbotherm[®] 3300

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 Carbotherm 3300

PERFORMANCE FEATURE	ADVANTAGE	BENEFIT
Unique insulative filler package	Reduces heat transfer into or out of substrate	Provides insulation value and worker protection from hot surfaces
High film-build properties	Apply more thickness per coat	Fewer coats needed for higher temperature applications
Paint-like application	Can insulate any complex geometry easily	Less labor required compared to other hand-applied, pipe wrap, casting, or board stock insulation methods
Excellent thermal resistant properties	Greatly reduces solar heat transfer	Energy efficiency

Physical Properties

TEST	METHOD	RESULTS
Thermal Conductivity	ASTM C177 (@ 25°C)	0.057 BTU/hr-ft-°F (at 0.172")
Emissivity	ASTM E408	0.88
Solar Reflectivity	ASTM E903	86.2
Thermal Transmittance	ASTM C177 @25°C	3.98 BTU/hr-ft2-°F
Accelerated Ageing	ASTM B117 (System: 859/3300/3359 DTM)	672016 hours; No blisters or rust on the plane; No rust in scribe; Few to medium #2 blisters at scribe
Cyclic QUV-A/Prohesion	ASTM D5894 (System: 859/3300/3359)	2016 hours; No effect
Humidity Cabinet	ASTM D2247 (System: 859/3300/3359 DTM)	2016 hours; No effect
Flame Spread	ASTM E84 (System: 3300)	Flame spread: 0 Smoke development: 0



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