

DESCRIPTION:

TemperKote No. 450C is a special silicone copolymer coating, designed to meet the stringent demands of a high temperature resistant coating for use on aluminized steel. The material has a low luster to enhance the uniform appearance of the exhaust system components.

The curing mechanism is a combination of solvent evaporation and resin cross-linking. The coating air dries to a tough finish, and is designed to withstand handling in a short period of time at ambient temperature (77°F).

RECOMMENDED USES:

Wherever maximum resistance to heat, humidity, and weather is required; can be used on manifolds, mufflers, and radiators where the maximum temperature is 842°F (450°C).

USED BY:

Schools, Colleges, Nursing Homes, Child Care Centers, Hospitals. Penal Institutions, Apartments, Hotels, Factories, Warehouses, Retail Stores, Restaurants, Utilities, Railroad and other Transportation Companies, Oil and Chemical Installations, Military Installations and other facilities where fire retardant coatings are required.

PERFORMANCE INFORMATION:

- This unique coating performs as well as many pure silicone coatings, but has the distinct advantage of air-curing, and has excellent adhesion to the aluminized steel. It also affords good corrosion resistance, and has outstanding weather resistance. Do not apply on interior surfaces of ovens, stacks, etc.

CHARACTERISTICS:

Finish Low Luster Black
Spreading Rate Per Coat
 439 sq.ft/gal. (10.8 m²L) @ 1 mils dry
Coating Thickness (DFT)
 1 mil minimum
 2 mil typical

V.O.C 5.3 lbs./gallon (632 g/L)
Solids by Weight 44% ± 2%
Solids by Volume 27% ± 2%
Drying Time @ 77°F (25°C) & 50% R.H.
 To touch 15 min
 To handle 30 min
 To recoat 2 hours
 Air dry to cure 15 min
 then 3 minutes @ 200°F

Type of Cure Solvent Evaporation/
 resin cross-linking

Flash Point of Liquid Coating 45°F (7.2°C)
 (Pensky-Martens closed cup)

Reducer/Cleaner Xylol (Xylene)
 or MEK

Shelf Life 2 years (unopened)

Packaging 1 & 5 gal. containers
 weight/gal. 9.63 ± 0.2 lbs.

Shipping Weight 4 gals. - 40 lbs.
 5 gals. - 50 lbs.

Application Brush, roll, conventional
 and airless spray

PRECAUTIONS:

WARNING! FLAMMABLE LIQUID & VAPOR: CONTAINS XYLENE & PETROLEUM DISTILLATES

VAPOR HARMFUL. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Keep away from heat, sparks and flame. VAPORS MAY CAUSE FLASH FIRE. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.

Read MSDS before opening containers.

KEEP OUT OF REACH OF CHILDREN

SURFACE PREPARTION:

Steel or aluminized steel: Surfaces should be clean, free of grease, oil, etc. Solvent clean. All corrosion, rust, etc. must be removed.

APPLICATION:

Spray with conventional electrostatic, HVLP or airless. Adjust to manufacturer specifications. Use Xylol if thinning is necessary. Can be brushed on with excellent application results.

APPLICATION EQUIPMENT:

Conventional Spray

Air Supply 11.5 CFM, 50 psi
 fluid 15 psi
 Gun Graco 217-800 to 217-816
 Type External Mix
 Reduction Up to 7%

Airless Spray

Titan 740 Impact (or Equivalent)

Pump
 Fluid Pressure 2100-2600 psi
 Manifold Filter 60 Mesh
 Gun Filter 60 Mesh
 Fluid Hose ¼" diameter
 Gun LX-80 II
 Tip013 - .017

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