



TEMPERKOTE® INS

A Liquid Insulation Paint

Hi-Heat® Thermal Insulating Coating

DESCRIPTION:

TemperKote INS Hi-Heat Thermal Insulating Coating is a composite ceramic insulation coating system. The coating provides an insulating barrier, protects personnel and helps prevent or reduce condensation formation all in one product. Microscopic air filled ceramic particles blended with premium acrylic resins provide substantial temperature differentials in relatively thin films. TemperKote INS eliminates the need for conventional insulation and jacketing for process equipment and piping.

For non-ferrous metals TemperKote INS can be applied directly to the substrate. No. 444 TemperKote H₂O Hi-Heat Corrosion Control Primer is recommended for use on carbon steel substrates to provide maximum corrosion protection.

RECOMMENDED USES:

Personnel protection, piping, air and heat duct work, exposed water pipes, steam lines, heat exchangers, tanks, boilers and any surfaces which require insulation or condensation control.

USED BY:

LNG pipelines and vessels, power plants, refineries, Factories, Warehouses, Utilities, Railroad and other Transportation Companies, Oil and Chemical Installations, Military Installations, and other facilities where personnel protection, insulating and or condensation control coatings are required.

PERFORMANCE INFORMATION:

Provides excellent thermal insulation. Significantly reduces or eliminates the possibility of condensation. Provides personnel protection from substrates up to 350°F. Product performs at temperatures up to 450°F (232°C).

USE UNTOPCOATED OR TOPCOATED:

Topcoating is not necessary for most applications; however, on surfaces requiring maximum washability and cleansibility, Temperkote INS should be topcoated with Temperkote H₂O, available in a variety of pastel colors.

CHARACTERISTICS:

Finish Flat

Color Off White

Maximum Recommended Temperature: 450°F

Personnel Protection Chart: (Per ASTM-C1055)

100°F-250°F	80 to 100 mils
250°F-300°F	120 to 150 mils
300°F-350°F	150 to 200 mils

Spreading Rate
 26 sq. ft./gal. (0.64m²/L)
 max per coat applied in multiple passes
 61.5 mils wet, 40 mils dry per coat
 Up to 5 coats may be applied

V.O.C. 0.21 lbs./gal. (25g/L)

Volume Solids 65% ± 2

Weight Solids 64% ± 2

Drying Time @

77°F & 50% RH:
 To touch 1 hour
 To recoat 4 hours for 1st coat
 Subsequent Coats 16 hours
 For high humidity situations (>70%) wait
 24 hours between all coats
 To overcoat TemperKote H₂O Primer
 2 hours

Type of Cure
 Water Evaporation/Coalescence

Flash Point None

Reducer/Cleaner Water

Shelf Life 1 year (unopened)

Packaging 1 & 5 gal. containers
 weight/gal. 8.2 lbs.

Shipping weight 4 gals - 35 lbs.
 5 gals - 45 lbs

Application Airless spray.
 Brush and roller
 suitable only for small touch-up work

PRECAUTIONS:

CAUTION! Do not take internally.
 Close container after each use.

Protect from freezing

Read MSDS before opening containers.

**KEEP OUT OF REACH OF
 CHILDREN**

SURFACE PREPARATION:

Surface preparation should be carried out according to good painting practices. All dirt, grease, oil, wax, other foreign matter must be removed before applying TemperKote INS.

A minimum requirement for carbon steel is an SSPC SP3 power tool cleaning, the preferred method for longest service life would be SSPC SP6, commercial blast cleaning. Apply over No. 444 TemperKote H₂O Hi-Heat Corrosion Control Primer for best corrosion resistance.

PREVIOUSLY PAINTED SURFACES:

TemperKote INS may be applied directly to existing paint that is tightly adherent and in good condition. All glossy surfaces should be dulled with sandpaper.

APPLICATION:

TemperKote INS must be mixed before use. Use only mud mixing paddles with a drill motor set on low speed. Mix to a uniform heavy bodied, creamy appearance. Airless spray is the best method of application. Brush and roller application should only be used for small touch-up areas. Do not apply in temperatures below 50°F (10°C).

APPLICATION EQUIPMENT:

Texture Rig

Titan Speedflo Powrtex 1200SF
 *Maximum Pressure 2200 psi
 Strainer Remove
 Gun S-5
 Tip027 - .031
 Reduction Not Recommended

* Do not exceed maximum pump pressure regardless of the maximum pressure capacity of the pump. Pressures exceeding 2400 psi may compromise the coatings insulating performance.

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