

350-INS Series

HiTemp Thermal Insulating Coating



Highland 350-INS HiTemp 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. Highland 350-INS eliminates the need for conventional insulation and jacketing for process equipment and piping.

Tech Specs

Heat Resistance:	350°F Constant
Vehicle Type:	Composite Ceramic
Reducer:	Not Recommended
Mix Ratio:	Single Package
Pot Life:	N/A
Volume Solids:	65%
Theoretical Coverage:	1042ft ² /gal. @ 1 mil DFT
VOC:	<25 g/L
Flash Point:	None
Dry Film Thickness:	Up to 40 mils DFT per coat
Wet Film Thickness:	Up to 61 mils WFT per coat

Dry-time:	Normal
To Touch:	1 Hour
To Recoat:	4 hours for 1st coat, 16 hours for
Subsequent Coats - For high humidity situations (>70%) wait	24 hours between all coats.
Shelf Life:	1 Year Minimum
Finish:	Flat
Color:	Off White & Gray
Packaging:	1 & 5 gallon pails
Storage Temperature:	35°F - 110°F
Application Temp:	
Ambient:	50°F Minimum
Substrate:	50°F - 120°F

Surface Preparation

All surfaces should be clean, dry and free of all foreign contaminants.
Apply over Highland approved primer. Consult Highland technical data sheet for recoat windows on approved primer before application.
See typical systems for primer options.

Mixing & Application

Mixing: Highland 350-INS Series needs to be thoroughly mixed using mechanical agitation. Use only mud mixing paddles with a drill motor set on low speed. Mix to a uniform heavy bodied, creamy appearance.

Reduction: Not Recommended

Airless spray is the best method of application. Brush and roller application should only be used for small touch-up areas. To ensure optimal performance, apply according to recommendations below.

Airless Pump: Titan Speedflo Powrtex 1200SF
Gun: S-5
Strainer: Remove
Pressure: 2200 PSI
Tip Range: .027 – .031

Brush or Roller: Touchup Only
Clean Up: Water

Typical Systems

Apply 350-INS Series at up to 200 mils DFT (40 mils DFT maximum per coat) over one of the following primers.

74-HF Series Primer	350°F Epoxy Novolac Primer
860-HF Series Primer	400°F Modified Silicone Primer
827-HB Series Primer	1200°F Inert Multipolymeric Matrix Primer

Safety Information

- Use normal precautions such as gloves, facemasks and barrier creams.
- Adequate ventilation must be maintained. In confined areas, applicators must wear constant flow airline respirators.
- If product comes into contact with skin, wash thoroughly with lukewarm water or diluted Boric Acid, and obtain immediate medical attention.
- This product contains FLAMMABLE materials. Keep away from sparks and open flames. Observe NO SMOKING regulations.
- All electrical equipment and installations should conform to NEC regulations. In areas where explosion hazards exist, applicators should be required to use nonferrous tools, and to wear conductive, non sparking shoes.
- Observe low flash regulations.
- Refer to Safety Data Sheet (SDS) for complete safety instruction

Precautions

- CAUTION! Do not take internally.
- Close container after each use.
- Protect from freezing
- Read SDS before opening containers.

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