

# HI-TEMP COATINGS TECHNOLOGY

## Recommended Uses and Applications of Hi-Temp 707 TIC®

**Purpose:** Hi-Temp 707 TIC uses and applications in environments and projects to provide best spray-on insulation protection for the substrate. Applicators/users should seek additional guidance from HTC Technical Support for applications and situations which are limited recommendation, as noted below. This documents supplements and should be used in conjunction with our product data bulletin and application guidelines for Hi-Temp 707 TIC. HTC Technical Support can be reached at +1-978-635-1110 or at [hitemp@hitempcoatings.com](mailto:hitemp@hitempcoatings.com)

Use Hi-Temp 707 TIC	Recommended	Limited Recommendation (Contact HTC)	Not Recommended (Contact HTC)
Low level process insulation, substrate under 350° F/177° C maximum.	✓		
Personnel protection, substrate under 350 °F/177 °C maximum.	✓		
Surface condensation mitigation for cold product		✓	
As part of a 707 system including primer and sealer	✓		
Without an approved corrosion resistant primer			✓
Without an approved sealer application			✓
Substrates whose surface temperature may peak above 375° F/190°C			✓
Process insulation requiring K Value higher than 0.60			✓
Cryogenic or cold service, substrate below minus 25 °F/minus 32°C			✓
Intermittent or continuous immersion service			✓
Strong chemical environment, splash, spill or fume			✓
<b>Apply Hi-Temp 707 Over</b>			
Carbon steel primed with Hi-Temp 1027 (Service -25°F to 350°F [-])	✓		
Carbon steel primed with Hi-Temp 250EP (Service 0°F to 250°F)	✓		
Carbon steel primed with tested, HTC approved primer	✓		
Stainless steel primed with Hi-Temp 1027	✓		
Stainless steel primed with tested, HTC approved primer	✓		
Properly primed galvanized or nonferrous metal surfaces		✓	
Thin gauge sheet metal surfaces		✓	
Previously coated substrates		✓	
Metal substrates without corrosion protection			✓
Nonmetallic substrates		✓	
Apply to substrates up to 300°F/149°C	✓		
<b>Apply Hi-Temp 707 Using</b>			
Low pressure Texture Application Pump for large flat surfaces	✓		
Conventional Spray, Bottom Fed Pot with mastic gun	✓		
Conventional Spray, Top Fed Pot with normal internal mix gun		✓	
Small, consumer-style texture application pump		✓	
Airless Spray			✓
Brush application for tie-ins, touch-ups and very small areas	✓		
Trowel application for tie-ins, touch-ups and very small areas	✓		
Roller Application			✓
<b>Apply Hi-Temp 707</b>			
Up to 50 mils DFT per coat ambient or hot apply (substrates to 300°F/149°C)	✓		
Additional coats of HTC 707 TIC up to 200 mils [5000 microns] DFT total	✓		
Thin with water as specified in the HTC 707 TIC product data sheet	✓		

Thin with water beyond limits specified in the HTC 707 TIC data sheet		✓	
Thin with non-potable or contaminated water			✓
Thin with anything other than water			✓
Allow unused HTC 707 TIC to sit in open containers more than 30 minutes			✓
Apply HTC 707 TIC without proper mixing procedure before application			✓
Apply HTC 707 TIC when substrate or air temperature is under 50°F/10°C			✓
Apply HTC 707 TIC when relative humidity is 85% or higher			✓
Apply HTC 707 TIC when rain is expected within 24 hr, below 75°F/24°C.			✓
Apply HTC 707 TIC if heavy dew is expected within 24 hr, below 75°F/24°C.			✓
Allow 24 hr dry between coats of 707 if relative humidity is 70% or higher	✓		
Repair clean, aged HTC 707 TIC with itself	✓		
Seal HTC 707 TIC with HTC 400 Waterborne Silicone Sealer	✓		
Seal HTC 707 TIC with unspecified topcoats			✓