



TemperKote® 1000 Primer
 INDUSTRIAL HI-HEAT® RESISTANT COATING
 High Build Primer that Cures at Ambient Temperatures
 Prevents Corrosion Under Insulation
 *Maximum Service Temperature 1200°F (649°C)

Product Description:

Primer: TemperKote 1000 primer is a single component, low VOC, high-build primer designed to provide superior protection in severely corrosive environments. TemperKote 1000 Primer has the ability to go on marginally prepared surfaces, cure at ambient temperatures, and be applied directly to hot surfaces up to 450°F.

CUI: TemperKote 1000 primer prevents corrosion under insulation. It resists thermal cycling in wet, steam, and dry applications while forming a tenacious, protective bond to a variety of metals.

Characteristics:

Colors	Dark Gray: For use with dark-colored topcoats Light Gray: For use with light-colored topcoats	Weight Per Gallon	15.9 lbs. (7.2 kg)
Finish	Flat	Resin Type	Silicone
Thermal Stability	1200°F (649°C)	VOC	Less Than 3.5 lbs. /gal (420 g/L)
Type of Cure	Ambient Cure	Flash Point	40°F (4.4°C) (PMCC)
Application Temperature	50°F (10°C) to 450° (232°C)	Reducer/Cleaner	TemperKote Reducer
Solids By Volume	47% ± 2%	Packaging	1, 5 & 55 gal. containers
Solids By Weight	71% ± 2%	Shelf Life	2 years (unopened)
Spreading Rate per Coat	126.3 – 151.5 sq. ft./gal (3.1 – 3.7 m ² /L)	Allowable Number of Coats	3 (18 mils dry in total)
	10.0 – 12.0 mils wet, 5.0 – 6.0 mils dry	Compatible Top Coat	TemperKote 1000 Top Coat
Drying Time @ 77°F (25°C) & 50% R.H.		To touch	To Topcoat
(*) Higher surface temperatures will speed dry time)		½ - 1 ½ hour	4 – 6 hours

Recommended Uses:

TemperKote 1000 primer is designed to be applied to surfaces where maximum corrosion protection is desired. With its high build characteristics, TemperKote 1000 primer can be applied to marginally prepared surfaces including tightly adhering rust. TemperKote 1000 primer can also be applied directly to hot surfaces up to 450°F eliminating the need to take equipment out of service.

Extensive corrosion testing has shown TemperKote 1000 outperforms competitive primers for corrosion protection, durability, and appearance.

Not recommended for use on the **inside** of ovens, stacks, etc.

Features:

- High build primer
- Goes on marginally prepared surfaces including tightly adhering rust
- Cures at ambient temperatures
- Superior corrosion protection
- Open recoat window
- Can be applied to hot surfaces (450°F Max)
- Bonds to stainless steel without the need for abrasive Blasting
- Bonds to galvanized and aluminum surfaces
- Low VOC



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Surface Preparation:

For best results surfaces should be free from oil, grease, dirt, mill scale, rust, corrosion products, oxides, paint and foreign matter. The performance and service life of all coatings are dependent on the quality of the surface preparation.

Recommended: Dry abrasive blast clean to SSPC-SP 6, "Commercial Blast" with a 1.0 to 2.0 mil profile.

When abrasive blast cleaning is not an option, the following methods are acceptable:

SSPC-SP 15 "Commercial Grade Power Tool Cleaning", with a minimum 1.0 mil profile.

SSPC-SP 3, "Power Tool Cleaning"

SSPC-SP 2 "Hand Tool Cleaning".

STAINLESS STEEL SURFACES:

Surface must be clean and dry. Remove all oil, grease, soil, drawing and cutting compounds and other foreign matter by solvent cleaning per SSPC-SP1.

DO NOT USE CHLORINATED SOLVENTS ON STAINLESS STEEL SURFACES.

For large areas steam clean with an alkaline detergent followed by steam or fresh water wash to remove residue.

Application:

Mix thoroughly by boxing or stirring. Can be applied by brush or spray. Spray application is desired, as a more uniform film is generally obtained.

Apply up to 3 coats of TemperKote 1000 Primer at approximately 10.0 – 12.0 mils wet film thickness, (126 - 151 sq.ft./gal.) to yield a dry film thickness of 5.0 – 6.0 mils dry. Allow to cure 4-6 hours at ambient temperatures. TemperKote 1000 primer can be top coated with one coat of TemperKote 1000 Series Hi-Heat Coating at the specified coverage rates.

Application Equipment:

AIRLESS SPRAY:

- Graco Mark IV, V (or Equivalent)**
- Fluid pressure 2500 - 3200 psi
- Manifold Filter None
- Gun Filter Remove
- Hose 1/4" - 3/8" diameter
- Gun LX-8011
- Tip019 - .025

FOR INDUSTRIAL USE ONLY

Read MSDS before opening containers

KEEP OUT OF THE REACH OF CHILDREN

Precautions:

DANGER! FLAMMABLE LIQUID & VAPOR: CONTAINS TOLUENE & 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.

USE ONLY WITH ADEQUATE VENTILATION. Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. Close container after each use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

FIRST AID: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, get medical attention immediately. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent container and unused contents in accordance with local, state and federal regulations.

As we cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used, we accept no responsibility for results obtained by the application of this information or the safety or suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. We sell the products without warranty or guarantee, and buyers and users assume all responsibility and liability for loss or damage from the handling and use of our products, whether used alone or in combination with other products.