



TEMPERKOTE® 850 PRIMER

(Formerly Flame Control 850 Primer)

AIR DRIES, NO HEAT CURING REQUIRED

HIGH PERFORMANCE INDUSTRIAL HEAT RESISTANT COATING

*Maximum Service Temperature 850°F (454°C)

DESCRIPTION:

TemperKote No. 850 Heat Resistant Primer based on a silicone alkyd resin designed to offer fast dry/recoat times and impart corrosion resistance in severe environments. The primer withstands thermal cyclic conditions to 850°F. It is specially formulated to form a tenacious protective bond to steel providing excellent corrosion protection under TemperKote No. 850 topcoats. Under normal conditions TemperKote No. 850 Industrial Heat Resistant Primer air dries within 30 minutes and can be topcoated in as little as 45 minutes.

RECOMMENDED USES:

Use wherever resistance to heat, humidity, and corrosive atmospheres is required. Can be used as a primer under TemperKote No. 850 decorative topcoats on metal parts, heaters, mufflers, radiators, storage tanks, hot water and steam lines, where operating temperature will not exceed 850°F (454°C). **Not recommended** for use on the **inside** of ovens, stacks, etc. **DO NOT USE OVER GALVANIZED METAL**

PERFORMANCE INFORMATION:

Provides excellent resistance to corrosive atmospheres, hostile environmental conditions and temperatures up to 850°F (454°C).

CHARACTERISTICS:

Colors Gray or Red Oxide
Thermal Stability . . . 850°F (454°C)
Finish Flat
Resin Type Silicone Alkyd
Type of Cure Oxidation

Drying Time @ 77°F (25°C) & 50% R.H.

To touch. ½ - 1 hour
To topcoat ¾ hour
Minimum, no maximum

Application Temperature

50°F (10°C) to 120°F (49°C)

Spreading Rate per Coat

535 sq. ft./gal (13.1 m²/L)
2.6 mils wet, 1.1 mils dry

VOC Less Than . . . 4.1 lbs. /gal (486 g/L)

Solids by Weight 58% ± 2%

Solids by Volume 42% ± 2%

Weight Per Gallon . . 10.2 lb (4.6 kg)

Flash Point

of Liquid Coating 78°F (26°C)
(Pensky-Martens closed cup)

Reducer/Cleaner Xylene

Shelf Life 2 years (unopened)

Packaging . . . 1, 5 & 55 gal. containers

Application Brush,
conventional and airless spray

SURFACE PREPARTION:

For best results surfaces should be free from oil, grease, dirt, mill scale, rust, corrosion products, oxides, paint and foreign matter.

STEEL:

Remove all flux, splatter and slag left from welding. Grind all welds until smooth. Remove rust, mill scale, oil, grease, and other contamination by solvent cleaning per SSPC-SP1. For severe environments blast surface to commercial grade profile per SSPC-SP6. For typical industrial environments a low profile white metal blast, SSPC-SP6, is preferred as it will give best results, especially where higher service temperatures are anticipated. Remove all remaining abrasive from surface by air blasting. Coat the freshly blasted surface as soon as possible. Do not allow surface to become wet. Do not wash freshly blasted surface with solvents.

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. **Do not apply heavier film than specified, as the coating may blister when heat is applied.**

STEEL:

Apply one coat of No. 850 Industrial Heat Resistant Primer at approximately 2.6 mils wet film thickness, (535 sq. ft. /gal.) to yield a dry film thickness of 1.1 mils. After the primer is dry, apply one uniform coat of TemperKote No. 850 in the desired color, to achieve a dry film thickness of 0.9-1.1 mils.

Note: TemperKote No. 850 Series **No. 2 SILVER** Heat Resistant Coating should be applied direct to metal, without primer.

APPLICATION EQUIPMENT:

Conventional Spray

Air supply . 12 CFM, 50 psi at nozzle,
fluid 15-20 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. 2700-3100 psi
Manifold Filter 60 Mesh
Gun Filter 60 Mesh
Fluid Hose ¼" diameter
Gun LX-80 II
Tip.015 - .021



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PRECAUTIONS:

DANGER! 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

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.

FOR INDUSTRIAL USE ONLY

Read MSDS before opening containers.

KEEP OUT OF THE REACH OF CHILDREN

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.