



TECHNICAL DATA GUIDE

GLAS-TECH 9000™

HEAT RESISTANT FORMULA

PRODUCT DESCRIPTION

GLAS-TECH 9000™ Heat Resistant Topcoat System is an acrylic urethane topcoat system that utilizes the GLAS-TECH 9000™ Resin, which is modified on the jobsite, for use on stoves, ovens, and other surfaces. Modifying the GLAS-TECH 9000™ Topcoat System allows for the following advantages:

- a. It allows for the advantage of GLAS-TECH 9000™'s unmatched gloss and durability.
- b. It allows the refinisher to use their on-hand Resin and Reducer supplies, allowing for easier point-of-purchase upgrades.
- c. It allows for custom matched colors within the kitchen to match perfectly from sink, to refrigerator, to stove, to dishwasher, because only one color match is necessary.

While this coating system greatly exceeds the heat resistance of ordinary urethanes, it is not designed to withstand open flame or extreme heat. A direct natural gas flame, which can reach temperatures of 1100 degrees Fahrenheit, would constitute extreme heat. It is the responsibility of the applicator to determine the intended use of the item to be sprayed, and to determine if the design of the stove or oven would subject the coating to excessive temperature extremes.

GLAS-TECH 9000™ Heat Resistant Topcoat System enjoys the broad-based characteristics of the 9000 family, however, the mixing, application, and cure time guidelines must be followed to the letter in order for the coating to reach its maximum heat resistant characteristics, and provide optimum service.

SPECIFICATIONS

COATING TYPE:	Modified Acrylic Urethane
MIX RATIO:	For spray application; 4 parts 9000 or 9100 Resin, 1 part 90615 THERMOSET Additive, 2 parts 90421 Heat Resistant Catalyst.
REDUCTION:	Reduce as necessary with 90501 Standard Reducer, 90511 Quick-Flash Reducer, or 90521 Slow Reducer, to achieve best results with the type of spray equipment used.
POT LIFE:	90 minutes @80 degrees F. NOTE: Product must be re-mixed every 10 minutes, to guard against kick-out.
INDUCTION TIME:	See Mixing Directions
CURE TIME:	See Application Directions
PRACTICAL COVERAGE:	240 Sq.ft. per mixed gallon @ 5 mils wet film thickness (RFT)
DRY/CURE TIMES:	See Application Directions

DIRECTIONS FOR USE

The surface to be sprayed should be clean and properly prepared. Follow technical directions for Porc-Etch 1000™, or Porc-Etch 1010™ for porcelain and ceramic substrates. After surface is clean and dry, solvent wipe and prime metal surfaces with Vinylfuse 2500™. For porcelain and ceramic surfaces, Hawk Quick-Prep™ wipe-on primer system may be used. When a film-forming primer is desired, Stratum 3000™ is recommended. Allow for proper primer system dry times, to ensure proper intercoat adhesion.

Read and understand all Material Safety Data Sheets before mixing and usage. Product hazards exist during the mixing phase, and proper safety equipment should be donned before opening product containers. Mix 4 parts by volume GLAS-TECH 9000™ Resin in the desired color with 1 part THERMOSET additive, stock #90615. Mix by high speed mixer, or seal and shake for a minimum of 5 minutes. HAND MIXING OR STIRRING AT THIS STAGE IS NOT SUFFICIENT. This mixing must take place before the catalyst is added. Next, add 2 parts Heat Resistant Catalyst, stock #90421. Hawk's standard Topcoat Catalyst will NOT provide the proper catalysis, and may NOT be used. Re-mix thoroughly, stirring by hand at this stage is sufficient. The maximum stand time between adding THERMOSET and Heat Resistant Catalyst is 3 hours. With the average free-standing household oven being approx. 36-40 square feet in surface area, the following volumetric add rates are provided as a starting point for H.V.L.P. application:

12 oz. by volume GLAS-TECH 9000™ Resin
3 oz. by volume #90615 THERMOSET Additive
6 oz. by volume #90421 Heat Resistant Catalyst
6-8 oz. by volume #90501 Reducer

Surface to be sprayed should be 60-90 degrees F. The volume solids of the Mixed, catalyzed, reduced formula is greater than that of the regular 9000 formula, which translates to smoother overall lay-up of the formula. If you are spraying this formula for the first time, be sure to test spray the formula, then adjust viscosity as necessary. During spraying, re-mix the formula frequently. Spray a uniform medium tack coat, followed by medium build coats, ensuring adequate flash times of a least 5 minutes between coats. Tack dry times will be longer than the traditional 9000 formula, due to the increased volume solids. Build to a recommended film thickness of approx. 5 mils wet, which will yield 3.5 mils dry. Chemical acceleration of this topcoat system may cause failure, and is not recommended. This formula has a pot life of 90 minutes at 80 degrees F. Applying formula after this time may result in coating failure.

While the dry-to-handle, and water cure times of this coating match that of the traditional 9000 formula, GLAS-TECH 9000™ Heat Resistant Topcoat System requires a minimum of 7 days (170 hours) to begin to acquire its heat resistant properties. After this initial 170 hour cure, heat resistance increases for approximately 30 days, until full cure is achieved. For this reason, Hawk Labs recommends that the appliance not be returned to service for at least 7 days @70 degrees F.

SAFETY

This product is designed and intended for industrial use by trained professionals who are familiar with the inherent risks and hazards of the product. Before storing, mixing, or applying this product, read and understand all of the product's Material Safety Data Sheets. For a copy of the M.S.D.S. Sheets, contact Hawk Research Laboratories at (630) 227-0050. This product may be blended with other products prior to use, and therefore may possess the hazards of all the products blended.

NON-WARRANTY

This is not a fire-proof, fire rated, or N.F.P.A. recognized product. This is a urethane coating system designed to resist the yellowing effect and blistering caused by long-term exposure to low grade (160-600 degree) heat. Do NOT incorporate any other components into this coating system. Any recommendation of Hawk Research Laboratories contained herein covering use, utilization, chemical or physical properties and other qualities of the products sold is believed reliable; however, Hawk Research Laboratories has no control over the final use of this product, and therefore makes no warranty or representation with respect thereto. Use of application of any Hawk Labs' products is at the discretion of the Buyer without liability or obligation whatsoever of Hawk Research Laboratories.