



KBS MAXX

DIRECTIONS & APPLICATION INFORMATION



KBS MAXX is a superior performance, two-component, low VOC, low HAPs polyurethane topcoat. Specifically designed for the automotive, agricultural, fleet refinishing, marine, and heavy industrial equipment markets.

KBS MAXX offers excellent gloss and color retention as well as superior impact resistance, while providing fast drying characteristics. An excellent coating for the OEM marketplace looking to provide an automotive quality look and finish in a single stage, two-component system.

To achieve expert results, please take the time to carefully read and understand the following directions before you begin your restoration project. These directions are meant to be general guidelines only and do not cover every application or environmental situation. If you have remaining questions or concerns, please call us at 219-263-0073 for technical assistance.

ALWAYS WEAR PROTECTIVE GLOVES AND SAFETY GLASSES. ALWAYS WORK IN A WELL-VENTILATED AREA. Please heed all warning and caution notices on all KBS products.

SURFACE PREP:

Do not apply if surface temperature is below 45°F (7°C) or above 110°F (43°C), or if the surface temperature is within 5°F of the dew point. The surface should be cleaned with KBS Klean to remove all grease, dirt, oil, rust, and foreign material which would be detrimental to proper adhesion and desired performance of the coating system being applied.

SURFACE PRIMER:

Use the KBS 3-Step System of KBS Klean, RustBlast and RustSeal for the ultimate in surface cleaning, surface prep and primer sealing. MAXX may be applied over most epoxy and/or urethane primers. Follow primer manufacturers topcoat guidelines.

MIX RATIO:

3 parts base (color) to 1 part activator by volume. Use of a mechanical mixer is highly recommended. Mix KBS MAXX color thoroughly. In a mixing cup/container, carefully measure 3 parts color. Add 1 part MAXX activator. Mix thoroughly. KBS MAXX and MAXX Activator are pre-thinned and ready to spray but you can add MAK or Acetone if needed.

APPLICATION CHARACTERISTICS:

Mix Ratio:	Mix 3:1 (Base Component:Activator)
Reducer:	Ready to Spray. MAK or Acetone may be added if needed.
Cleaning Solvent:	MEK, MAK, or Acetone.
Pot Life:	Doubles in viscosity in 30 minutes.
Dry Times:	Touch: 30 minutes Through Dry: 1 – 2 Hours Hard: 3 – 4 Hours Recoat: Anytime
Force Cure:	Allow 15 minutes to Flash, 20-30 minutes @ 140° - 180°F
Full Cure:	A Function of Time, Temperature, and Film Build. This Product will not reach Full Cure for 7 days.
Note: Test Performed @ 77° F 50% Relative Humidity	

APPLICATION:

For optimum results MAXX should be applied using spray equipment such as Conventional Electrostatic, Conventional suction spray gun, HVLP, Air Assisted Airless, or Airless. Brush or roller application can be used for touch up only.

Conventional Electrostatic:	Air Pressure: 40 - 60 psi	Fluid Pressure: 15 -20 psi	Cap: Medium Visc. Tip: 1.2 - 1.5 mm
Conventional Spray:	Air Pressure: 40 - 60 psi	Fluid Pressure: 15 - 20 psi	Cap: Medium Visc. Tip: 1.2 - 1.5 mm
HVLP Spray:	Air Pressure: 15 - 20 psi	Fluid Pressure: 15 - 20 psi	Cap: Medium Visc. Tip: 1.2 - 1.5 mm
Air Assisted Airless:	Air Pressure: 15:1 ratio pump or larger @ 80- 100 psi	Atomizing Air: Adjust as needed	Cap: Medium Visc. Tip: 0.09 - 0.13"
Airless:	Pressure: 1500 psi min.	Tip: 0.09 - 0.11"	
Brush and Roll: Only recommend for touch up. Utilize a China bristle brush or high-density foam roller and reduce with Acetone.			
Note: The above parameters are to be used as a guideline only. Customer specific equipment may require a different set-up.			

CLEAN UP:

KBS # 1 Thinner or lacquer thinner for cleanup. KBS MAXX must be cleaned up immediately before it dries. Once cured, KBS MAXX cannot be removed by any solvent. Wear protective gloves to avoid skin contact.

DRY TIME / CURE:

Air Dry: Curing is a function of Time, Temperature, and Film Build. Air dry in 30 minutes to touch, thorough dry in 1-2 hours, dry hard in 3-4 hours. Tested @ 77° F @ approx. 70% relative humidity.

NOTE: The above information is supplied as a guideline to our customers. The user must be aware of the cleaning, pretreatment, application, and testing requirements for their specific job!

PHYSICAL PROPERTIES:

Volume Solids:	60.5 +/- 2.0%
QUV 313B:	1000 hours
Weight Solids:	67.4 +/- 2.0%
Pencil Hardness:	2H @ 72 Hours
Skydrol:	24 hours 150°F - no discoloration
10%-Sodium Hydroxide:	Excellent
Weight Per Gallon:	8.76 +/- 0.2 lbs/gallon
Impact Direct/Indirect:	160 inch-pounds
Theoretical Coverage:	970 sq ft/gal @ 1 mil dft
Dry Heat Resistance:	1 hour at 250°F, less than 1.0 DE
VOC:	2.8 lbs/gal mixed
Recommended Film Thickness:	1.5 – 2.0 mils DFT
Viscosity:	27 - 33 seconds #2 Zahn cup (mixed)
Salt Spray (B117): Q-Steel panels prepared with RustSeal/KBS MAXX system of 3.0 – 4.0 dft	2000 hrs.

CHEMICAL RESISTANCE:

MEK, 100 Double Rubs:	Pass @ 24 hours
10%-Hydrochloric Acid:	Excellent
Lubricating and Cutting Oils	Excellent
10%-Acetic Acid:	Excellent
Skydrol:	24 hours 150°F - no discoloration
10%-Sodium Hydroxide:	Excellent
Water Immersion:	Excellent
JP 5:	Pass at 70°F for 7 days

**Please see SDS and follow all warning and cautions.
Made in the USA.**

Information contained herein is to our knowledge true and accurate, but all recommendations or suggestions are made without guarantee. Since application lies outside our control, we cannot accept any liability for the results. User shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith.

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