



KBS MAXX

TDS / Directions & Application Information



KBS MAXX is a two-component (2K), 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 a 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 contact us 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 well 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. KBS MAXX may be applied over most epoxy and/or urethane primers. Follow primer manufacturers topcoat guidelines.

MIXING AND MIX RATIO

Always mix KBS MAXX Base (color) thoroughly. Use of **KBS Hurricane Paint Mixer** or similar mechanical mixing blade attached to a variable speed drill is **highly recommended**. After the KBS MAXX Base (color) has been mixed well and smooth in consistency, in a mixing cup/container, carefully measure 3 parts mixed up KBS MAXX Base (color). Add 1 part MAXX Activator. Mix thoroughly.

KBS MAXX and KBS MAXX Activator are pre-thinned and ready to brush, roll, or spray, but you can also add **KBS #1 Thinner** or Xylene as needed at this point and then mix well using a mechanical mixer.

APPLICATION CHARACTERISTICS

Mix Ratio:	Mix 3:1 (Base Component:Activator)
Reducer:	Ready to Apply. KBS #1 Thinner or Xylene may be added if needed.
Pot Life:	Doubles in viscosity in 30 minutes.
Dry Times:	Touch: 30 minutes Through Dry: 1-2 Hours Hard: 3-4 Hours (<i>resistant to handling & light abrasion</i>) Recoat: 30 minutes to 3 days with no scuffing
Force Cure:	Allow 15 minutes to Flash, 20-30 minutes @ 140°- 180°F
Full Cure:	A Function of Time, Temperature, and Film Build. Full Cure is usually at least 7 days.
Note: Test Performed @ 77° F 50% Relative Humidity	

APPLICATION

For optimum results KBS MAXX can be applied by **Brush** or **Roller** and also using **Spray Equipment** such as Conventional Electrostatic, Conventional suction spray gun, HVLP, Air Assisted Airless, or Airless.

Conventional Electrostatic:	Air Pressure: 40-60 psi	Fluid Pressure: 15-20 psi	Cap: Medium Visc. Tip: 1.2mm
Conventional Spray:	Air Pressure: 40-60 psi	Fluid Pressure: 15-20 psi	Cap: Medium Visc. Tip: 1.2mm
HVLP Spray:	Air Pressure: 15-20 psi	Fluid Pressure: 15-20 psi	Cap: Medium Visc. Tip: 1.2mm
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/OR ROLL

Utilize a poly bristle brush or high-density foam roller or low profile roller and reduce/thin with KBS #1 Thinner. When brushing KBS MAXX, for best results, do not overwork the brush as this can cause the KBS MAXX to cure too quickly, possibly leaving visible brush marks. It is best to brush an area with KBS MAXX and move on immediately versus brushing an area over and over again. If you brush over an area over and over again forcing the solvents out, you run the risk of the brush marks not flowing out as well; they are designed to flow out.



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SPRAYING METALLIC COLORS

For single stage metallic coatings like KBS MAXX, spray a nice covering coat, wait a minute or two, but before it has tacked over, and apply a mist coat increasing the distance between the surface and the gun and only pulling the gun trigger 50-75%. This technique will keep the metallic on the surface and prevent it from floating creating a brilliant sparkle in the KBS MAXX finish.

Note: *The above parameters are to be used as a guideline only. Customer specific equipment may require a different set-up*

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. Full cure is 7 days. Tested @ 77° F @ approx. 70% relative humidity.

CLEAN UP

KBS # 1 Thinner, Xylene, 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. Always wear protective gloves to avoid skin contact.

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:	450 sq ft/gal @ 2 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

Sprayable VOC's: <336g/l

Please see SDS and follow all warnings 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 the 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.

Complete How-To's
KBS-Coatings.com
KBS Online Instructional Videos
 View 3-Step System Application Videos —
 Available on KBS-Coatings.com

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