



DiamondFinish

Application Information

CLEAR COAT



KBS DiamondFinish ClearCoat is a high performance, rock-hard, water-clear topcoat, designed for spray or brush application over most metal and painted surfaces, including highly polished aluminum and chrome. DiamondFinish Clear is a permanent, high solids, moisture cured single component clear coat. DiamondFinish Clear is the latest development in ultra high performance clear coats with very high solids (over 60%) and low VOCs. DiamondFinish Clear Coat once cured is incredibly durable and hard like no other clear coat you have used before. This water clear high gloss clear coat remains permanently flexible and is able to perform in the world's toughest environments without yellowing or cracking. DiamondFinish Clear Coat can be applied by brush, roller, and conventional spray gun, with excellent flow out. Yet unlike normal two part coatings, no hardener is needed! DiamondFinish ClearCoat cures without heat or UV lights in temperatures from 50-82° F (10-28° C). Please read the guidelines, directions and warnings thoroughly.

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 toll-free 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.

COVERAGE:

Theoretical coverage at one mil (25 µm) is 400 sq.ft. per gallon/9.8 m² per liter. Recommended thickness of two mils (50 µm) would require two full coats. Three coats recommended for marine applications. Material losses during mixing and application will vary and must be taken into consideration. Expect up to 50% less coverage on bare wood, rough or sandblasted surfaces.

SURFACE PREPARATION:

CLEAR COATING OVER A BASE COAT:

Apply base coat as per manufacturers directions. Allow to dry which is normally about one hour.

CLEAR COATING OVER CURED COATINGS:

Clean surface with KBS AquaKlean diluted 10 parts warm water to 1 part AquaKlean. Scuff with 600-1200 grit sandpaper and repeat cleaning process. Rinse & allow to thoroughly dry.

CLEAR COATING BARE METALS:

For best results, metals should be freshly polished or sanded to the finish required and then thoroughly cleaned with a high evaporation solvent such as Butyl Acetate, MEK or Acetone. Continue to clean with KBS AquaKlean at a dilution rate of 10 to 1 with warm water (10% strength) with the use of a soft non-abrasive cleaning pad. **ALWAYS USE PROTECTIVE GLOVES AND EYE WEAR.** Keep cleaning times to a minimum for non-ferrous metals such as aluminum, copper, and brass. Rinse with water and dry in a way that minimizes any water stains.

CLEAR COATING WOOD:

Wood surfaces should be smooth and dry with the wood having a low moisture content. All existing failed coatings should be removed, sand smooth and remove dust. Thin initial coat of DiamondFinish Clear approx. 10% & apply a single covering coat to seal the wood. Allow to cure (24hours). The wood will generally need to

be sanded smooth again as DiamondFinish will tend to raise the wood grain with the first coat. Sand smooth with fine grade of sand paper (280-320). Apply an additional full coat for general applications and a minimum of 3 coats for marine or industrial users.

CLEAR COATING FIBERGLASS:

Clean the surface with KBS AquaKlean diluted 10 parts warm water to 1 part AquaKlean. Scuff with 600-1200 grit sandpaper and repeat cleaning process. Rinse & allow to thoroughly dry.

PREPARING FOR APPLICATION:

ALWAYS USE PROTECTIVE GLOVES AND EYE WEAR

Ideal application temperatures are 50-82°F (15-28°C). Use only in moderate to dry atmospheric conditions. Avoid rainy or high heat/humidity conditions.

DO NOT PAINT OUT OF CAN! Do not shake can. Stir thoroughly & frequently. Dispense a working amount of DiamondFinish Clear into a separate container (steel or glass is best) and seal original can immediately. Keep can groove free of paint by using a scoop or KBS Paint Spout. Use plastic wrap between the lid and the top of the can to stop metal to metal contact as DiamondFinish ClearCoat can permanently seal the lid. Unused paint should NEVER be put back into the can as it will shorten can shelf life and cause pressure build-up possibly popping the lid. If there is any trouble resealing the can lid tightly, transfer and store DiamondFinish ClearCoat in a proportionally sized clean glass jar or new paint can. Always store in a cool dry place.

APPLYING DIAMONDFINISH CLEARCOAT:

ALWAYS WORK IN A WELL VENTILATED AREA. Apply DiamondFinish Clear Coat to clean and dry prepared surfaces using a bristle brush, foam brush, roller, or spray equipment. DiamondFinish ClearCoat has superior self-leveling characteristics. Brush marks will flow out nicely. When brushing, apply covering coats, AVOID PUDDLING OR POOLING.

IF SPRAYING, ALWAYS WEAR AN AIR SUPPLIED RESPIRATOR AND EYE PROTECTION: NIOSH/MSHA approved organic vapor particulate respirator.

Thinning is not generally required if brushing. When spraying, 10%-15% is normally adequate. DiamondFinish can be thinned up to 30%. Use KBS #1 Thinner ONLY.

When spraying: Spray pressure of 35-45 psi, 250-330 kpa for siphon/pot guns and 25-35psi, 170-250 kpa for gravity/top container guns.

Always apply a MINIMUM of 2 covering coats, apply a thin covering initial coat followed by a moderate to full coat (2 mils each) for general applications.

For marine or industrial applications, apply a MINIMUM of 3 thin covering coats (2 mils each).

Re-coating can be done once the first or consecutive coat is dry-to-touch and does not leave a fingerprint.

Remember to clean your spray gun immediately after using DiamondFinish ClearCoat.

FOR BEST END RESULTS, always apply coats consecutively within 6 hours of each coat curing.

Average cure times are 1-2 hours, depending on humidity levels.

NOTE: Do not apply DiamondFinish ClearCoat in wet or high humidity conditions to avoid rapid curing.

Do not apply DiamondFinish ClearCoat too heavy or too quickly between coats.

In each of these instances, surface bubbling may result as released carbon dioxide becomes entrapped beneath the top surface layer of paint.

CLEAN UP:

Use KBS #1 Thinner or gun clean for immediate clean up including your spray gun.

IMPORTANT: Remember DiamondFinish ClearCoat must be cleaned up before it dries. It cannot be removed by any solvent once cured.

Always wear protective gloves to avoid skin contact and temporary staining. If skin contact accidentally occurs, immediately remove with #1 Thinner or lacquer thinner followed by soap and water. If DiamondFinish ClearCoat should stain your skin, only the course of time will remove it.

GENERAL PAINTING TIPS AND GUIDES:

- If painting in conditions of high temperature and/or humidity, thin DiamondFinish ClearCoat more than normal to avoid gassing.
- Do not use UV or bake lights to cure DiamondFinish ClearCoat.
- DiamondFinish ClearCoat will take 4 days to become hard under normal conditions and will continue to harden over the following weeks.
- In spray booths, use low air flow and moderate temperatures for curing.
- DiamondFinish ClearCoat can be cut and polished as a normal ClearCoat after 24 hours under normal conditions

Please remember these instructions are general guidelines only and do not cover every application and environment. If you remain unsure as how to proceed, refer to product instruction sheet, our website @ www.KBS-COATINGS.com, or please call toll-free for technical advice at **(877) 548-9323**.

Please follow all warning and caution notices.

CAUTION: CONTAINS PETROLEUM DISTILLATES AND ISOCYANATES.

KEEP AWAY FROM HEAT, SPARKS, AND FLAME. USE ONLY WITH ADEQUATE VENTILATION. TO AVOID BREATHING VAPORS OR SPRAY MIST, OPEN WINDOWS AND DOORS, OR USE OTHER MEANS TO ENSURE FRESH AIR ENTRY DURING APPLICATION AND DRYING. IF YOU EXPERIENCE EYE WATERING, HEADACHES, OR DIZZINESS, INCREASE FRESH AIR, WEAR RESPIRATORY PROTECTION (NIOSH/MSHA TC 23C OR EQUIVALENT) OR LEAVE THE AREA. SAFETY GLASSES AND PROTECTIVE GLOVES ARE RECOMMENDED DURING APPLICATION AND CLEAN UP. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. CLOSE CONTAINER IMMEDIATELY AFTER EACH USE. KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP CLOSURES TIGHT AND UPRIGHT TO PREVENT LEAKAGE. IN CASE OF SPILLAGE, ABSORB AND DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

THIS COATING IS INTENDED TO BE USED UNDER THE FOLLOWING CONDITIONS; AUTOMOTIVE AND INDUSTRIAL USE, VOC 340g/l

Hazardous ingredients: Polyisocyanate cas 28182-81-2 Naptha Petroleum cas 68333-23-3

FIRST AID: IN CASE OF SKIN CONTACT, REMOVE IMMEDIATELY BEFORE DRYING. IN CASE OF CONTACT WITH EYES, FLUSH THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES AND SEEK IMMEDIATE MEDICAL ATTENTION. IF YOU ARE EXPOSED TO A HIGH CONCENTRATION OF VAPORS OR YOU EXPERIENCE DIFFICULTY BREATHING, LEAVE THE AREA TO OBTAIN FRESH AIR. IF BREATHING DIFFICULTIES CONTINUE, SEEK MEDICAL ATTENTION. IF SWALLOWED, CALL A PHYSICIAN IMMEDIATELY. DO NOT INDUCE VOMITING. HARMFUL OR FATAL IF SWALLOWED. NOTICE: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN OR NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

WARNING: FLAMMABLE - KEEP AWAY FROM HEAT, SPARKS, AND FLAME.

CAUTION: KEEP OUT OF REACH OF CHILDREN.

USE WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. SEE MSDS FOR ADDITIONAL INFORMATION.

Manufactured by Advanced Protective Technologies, LLC. - Made in the USA.

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