



# MOTOR COATER

## DIRECTIONS & APPLICATION INFORMATION

**MOTOR  
COATER**  
ENGINE ENAMEL

*Motor Coater is easy to apply, offers superb coverage and yields a self-leveling professional looking finish. Your engine will be a show stopper at this DIY price...too bad it's kept under the hood!*

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.**

### **PRODUCT DESCRIPTIONS:**

Motor Coater is easy to apply, offers superb coverage and yields a self-leveling professional looking finish brushed or sprayed. These engine enamels provide deep, rich pigmented colors for excellent coverage. Your engine will be a show stopper at this DIY price. Motor Coater dries to a crack free finish that is guaranteed not to burn off. Motor Coater will restore your engine's original color and is lead-free as well as VOC compliant.

### **IMPORTANCE OF SURFACE PREPARATION:**

A common mistake is to think that detailed surface preparation is for overachievers, when it actually means the difference between poor results and results that can last generations. Corrosion and organic contamination will block and inhibit any coating from deeply penetrating and permanently adhering to the engine. Simply put, the cleaner the surface using KBS Klean, the more effective RustBlast will work and the deeper Motor Coater will penetrate into the pores to seal and protect your engine.

**FOR BEST END RESULTS**, Surfaces must be dry and free of dust, dirt, oil, grease, wax and other contaminants that would adversely affect paint adhesion. Newly sandblasted surfaces are the ideal choice for direct Motor Coater applications and require no other prep beyond blowing off the loose dust. Be sure to handle with gloves to avoid contaminating the surface with oily fingerprints. Please note that plastic media, bead or soda-blasted surfaces do not provide the adequate amount of abrasion needed for direct Motor Coater application and will require Step #2 RustBlast for further etching. For all other applications, simply follow the KBS Prep System below. Always allow products & surfaces to adjust to room temperature before prepping & painting.

### **STEP #1 - KBS KLEAN - CLEANING SURFACE:**

Wire brush and/or wire wheel surface, to achieve a solid surface profile. Alternately you could sand using a 320 grit paper. After removing all loose paint & flaking rust, it is necessary to remove all surface contamination. Slight residues of grease, oil or even fingerprints can ruin any good paint job. DO NOT use a solvent based cleaner which will leave harmful residues. Begin by diluting the KBS Klean concentrate with water. The warmer the water, the more effective and powerful the cleaning action of KBS Klean will be. Effective dilution rates will vary according to the type and degree of contaminants as well as surface materials. KBS Klean may be used in power sprayers for larger applications. For general purpose cleaning, apply liberally and scrub surface for 5-10 minutes. For heavy-duty cleaning, you can extend soaking time up to 24 hours or more as necessary. Use a bristle brush or scouring pad to expedite the cleaning of

heavily soiled surfaces. Re-treat surface as necessary until clean. Rinse clear & let dry. Do not allow KBS Klean to dry on surface before rinsing with water. **NOTE:** *Metal surfaces cleaned with KBS Klean should always be treated with RustBlast before painting to ensure proper adhesion.*

For all alloys and non-ferrous metals, KBS Klean application times and dilution rates should be kept to a *minimum* due to the wide variations in these materials. For maximum performance, follow with RustBlast to remove surface rust, etch the metal, and leave a zinc phosphate coating (white powder residue) for superior Motor Coater adhesion. For new, smooth or shiny metal surfaces, it is recommend to lightly scuff with 120 grit sandpaper followed by the KBS Klean and RustBlast systems. For previously painted surfaces, you will need to remove all paint via chemical stripping followed by the KBS Klean and RustBlast systems. If unable to remove any or all paint from metal surfaces, lightly scuff with 400 grit sandpaper followed by KBS Klean.

### **STEP #2 - RUSTBLAST - SURFACE PREP/ACID ETCH/RUST REMOVAL:**

Ideal application temp range is between 55-82°F (13-28°C). **FOR BEST END RESULTS**, remember that the surface to be treated should be free of dirt, oil, grease and other contaminants as the cleaner the surface, the more effective RustBlast will work. Be sure to have scraped off any loose rust, mill scale, paint, etc. and cleaned the surface with KBS Klean, prior to using RustBlast. Liberally apply RustBlast **FULL-STRENGTH** to a **CLEAN DRY SURFACE** using a spray bottle, brush, roller or backpack sprayer for larger applications. Re-apply often to continually keep the surface wet for a minimum of 10 minutes for smooth or lightly rusted surfaces, 20-40 minutes for moderately rusted surfaces and 1-2 hours for heavily rusted or corroded surfaces. Use a scouring pad as needed. **Do not allow RustBlast to dry on surface before rinsing.** This avoids leaving too heavy of a zinc phosphate buildup which can adversely affect the sealing process. After treatment, rinse thoroughly with water and then allow surface to **dry completely before coating.** For removal of light corrosion or etching of non-ferrous metals (aluminum, brass, copper), prepare surface as above and apply RustBlast for 10-20 minutes then rinse thoroughly with water and then allow surface to dry completely. After treatment with RustBlast, a slight white powder residue may appear. This is a zinc phosphate coating which aids Motor Coater's adhesion. Items treated with RustBlast can remain uncoated for up to 30 days before sealing depending on environmental conditions.

**NOTE:** *It is not necessary to remove every last speck of rust before applying Motor Coater. And some flash rust or orange staining may occur if surface was soaked and not dried immediately after using RustBlast. Either case, you are ready for coating with Motor Coater.*

### **STEP #3 - MOTOR COATER (Brush/Spray Application):**

Always work in a well ventilated area. Wear protective eyewear. Wear gloves to avoid skin contact and temporary staining. Ideal Motor Coater application temp range is 55°-82°F (13°-28°C).

Proper stirring of Motor Coater is very important for the best uniform sheen & finish. Stir Motor Coater thoroughly for several minutes to obtain even color mixture. Effective stirring includes repeatedly touching bottom of can & lifting to disperse any settled pigments and/or matting agents. Placing

paint can upside down for a short time before opening & stirring will aid with proper mixing. An upside down can may also be gently shaken prior to stirring. Avoid violent or excessive shaking motions which can introduce air bubbles and adversely affect the finish. Do not substitute shaking for stirring. For the best end results, continue to stir often during the course of painting. Thinning may be required for some spray applications. Reduce 5%-10% if needed using KBS #1 Thinner only, which is a slow evaporating solvent.

Apply Motor Coater to **clean, dry & prepped surfaces** using a bristle brush, foam brush, roller or spray equipment. Motor Coater has good self-leveling characteristics. Brush marks will flow out nicely. **SPRAYING:** FOLLOW ALL CAUTION & WARNING NOTICES WHEN SPRAYING. Spray pressures (at the gun) of 35-45 psi (250-330kpa) for siphon/pot guns and 25-35psi (170-250kpa) for gravity/top container guns are recommended. Spray Tip of 1.5mm is generally recommended. Thinning is not generally required but if needed 5%-10% is normally adequate. Use KBS #1 Thinner only which is a slow evaporating solvent.

In most cases, a single full coat of Motor Coater will cover completely with full color depth. If desired, a second coat may be applied **within 30 minutes or after 7 days**. Average cure times are 2-4 hours, however depending on humidity & temperature levels, dry times may vary. As with most paints, two thin coats are better than one heavy coat.

**NOTE:** Do not apply Motor Coater in thick or heavy coats, as wrinkling may occur. Do not apply additional coats after 30 minutes or before previous coat has dried completely, typically 7 days.

**NOTE ON MOTOR COATER STORAGE:** If storing for a period of time, hold can lid and plastic wrap closely above can and spray **KBS Paint Saver** towards side of the can to avoid splashing. Spray KBS Paint Saver 1-2 seconds for pints. KBS Paint Saver prevents paint damage and extends storage times of Motor Coater.

### **MOTOR COATER AEROSOL APPLICATION**

FOR BEST END RESULTS. Apply Motor Coater to prepared surfaces as described above. ALWAYS WEAR PROTECTIVE GLOVES AND EYEWEAR when using Motor Coater. Always use a NIOSH/MSHA approved air supplied respirator. For best results, spray at room temperature 60° to 78°F (20° to 26°C). Use only in moderate to dry atmospheric conditions i.e. 70% humidity or lower.

Shake can for at least one minute after listening for rattle or mixing ball. During application, shake intermittently for approximately 10 seconds at 1 to 2 minute intervals. Press valve all the way down. Do not extend finger beyond the valve. Hold container about 6 to 8 inches from surface to be sprayed. Do not cover with continuous spray. Move back and forth, releasing sprayhead after stroke. Overlap each stroke.

**IMPORTANT:** Apply thin coats rather than heavy coats. If paint runs or sags, paint is being applied too heavily or paint can is too close to surface. Apply one or two thin covering coats. Recoating can be done once first or consecutive coat is dry-to-touch. For best results, always apply coats consecutively within 24 hours of each coat curing. Average recoat cure times are 1-2 hours depending on humidity levels. Full cure is usually achieved within 24 hours.

**IMPORTANT:** After use, invert can and spray for 4 seconds to clean valve.

NOTE: If spray button becomes clogged, pull off and clean with KBS # 1 Thinner. DO NOT stick pins or wire into can opening. Replace spray button firmly with valve opening pointing away from you.

### **CLEAN UP:**

Use KBS #1 Thinner or lacquer thinner for **immediate** clean up including your spray gun. **IMPORTANT:** Always wear protective gloves to avoid skin contact. If skin contact accidentally occurs, remove with #1 Thinner or lacquer thinner followed by soap and water.

**Please follow all warning and caution notices.  
Refer to Safety Data Sheet.**

**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.

### **KBS SUPPORT FORUM**

[SUCCESS.KBS-COATINGS.COM](http://SUCCESS.KBS-COATINGS.COM)

### **COMPLETE How-To's**

[KBS-COATINGS.COM](http://KBS-COATINGS.COM)

### **KBS ONLINE INSTRUCTIONAL VIDEOS**

VIEW 3-STEP SYSTEM APPLICATION VIDEOS  
AVAILABLE ON [KBS-COATINGS.COM](http://KBS-COATINGS.COM)