

# KELLY-MOORE PAINTS INDUSTRIAL COATINGS HIGH PERFORMANCE SYSTEMS

## KM-1850 100% Solids Epoxy Glaze Color Coat

THIS PRODUCT MAY NOT BE AVAILABLE IN SOME AREAS DUE TO VOC REGULATIONS  
Contact your Kelly-Moore representative for more information

### Product Description

KM-1850 is a specially formulated, two component, 100% solids epoxy coating designed for use where a hard, durable, tile-like high gloss floor finish is desired.

### Performance Features

- Excellent Adhesion to Concrete Surfaces
- Outstanding Wear & Abrasion Resistance
- Outstanding Chemical Resistance
- One Coat Film Build from 10-60 Mils DFT
- Easy to Apply with No Solvent Odors

### Product Specifications

Resin Type	Epoxy
Color Range	Lt. Gray, Med. Gray, Tile Red, Beige
Finish	High Gloss
Dry Time	See Cure Time 2 <sup>nd</sup> page
Practical Coverage	80-160 Sq. Ft. / Gallon
Recommended Dry Film Thickness	10-20 mils per coat
Solids By Volume	95% ±3%
Mixing Ratio	3:1 by volume 3 parts Base <u>A</u> : 1 part Hardener <u>B</u>
Pot Life	20-30 minutes @ 75°F.
Sizes	1 gallon & 4 gallon kits
V.O.C.	0 Grams per liter
Thinner	DO NOT THIN
Clean Up	KM-SA-17 or KM-SA-74

### Surface Preparation

**WARNING!** If you scrape, sand or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323) or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

Any one of the four surface preparations may be sufficient or a combination of the four may be required depending on the condition of the concrete surface.

#### 1. High Pressure Wet Abrasive Blast Cleaning

All loose and unsound concrete must be mechanically removed down to sound concrete by means of power tool equipment, such as, chipping/scaling hammers, rotary scalers, etc.

High pressure water blast with sand injection all surfaces to remove all laitance, contaminants, and other foreign deposits to provide a sound, clean surface. Use clean dry air to blow down these areas to remove excessive moisture.

#### 2. Acid Etch

Apply Concrete Acid Etching Solution per the manufacturer's recommendations. Work the solution into the concrete with a stiff broom or fiber brush.

Allow solution to remain on the concrete surface per directions, or until the effervescing and bubbling ceases. Then flush floor thoroughly with clean, fresh water to remove all laitance, dirt, and other foreign materials.

NOTE: Do not allow the acid solution to dry on the floor before flushing off because dirt, etc., can be redeposited in the pores of the concrete.

#### 3. Vacuum Blast

All areas of the existing concrete may be Vacuum Abrasive Blast cleaned using a Wheelabrator Blastrac Shot Blast Machine with Dust Collector. A proper anchor profile pattern shall be achieved to provide maximum adhesion of the recommended system. A thorough washing may be necessary prior to blasting to remove all foreign matter. Check with Blastrac Mfg. for proper shot and application procedures.

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# KM-1850 (cont.)

## 4. Dry Abrasive Blast

Abrasive blast concrete surface to remove all laitance, loose concrete, coating, sealers, etc. It is necessary to achieve a rough anchor pattern and get to sound concrete. All blast material and foreign matter must be removed before application.

In all cases of surface preparation, the pH should be checked. A pH reading of 7.0 - 8.5 is acceptable. Also, a "Water Dissipation Test" should be made on random areas of the floor. A "Vapor Barrier Test" should also be run on the concrete.

New concrete must be cured at least a minimum of 28 days before applying a coating. All laitance, efflorescence, chemical contaminants, grease, oil, and other foreign material must be removed. The prepared surface must be clean, dry and structurally sound.

## Mixing Instructions

KM-1850 is prepared by mixing 3 parts Base (Part A) to 1 part Hardener (Part B) with a slow speed power drill with a Jiffy mixer. Do not vary from mix ratio proportions. KM-1850 may be used immediately after 3 minutes of mixing; no induction time is required.

## Application Procedure

For best results, apply KM-1850 with a notched squeegee at 10-60 mils DFT or a 1/4 to 1/2 inch nap roller at 10-20 mils DFT. After applying KM-1850, immediately back-roll material with a metal porcupine roller to break up any air bubbles formed by mixing or during application. If any concrete out-gassing occurs, roll 1-2 coats of KM-155 Concrete Primer directly to the concrete surface to help reduce out-gassing before applying KM-1850. The primer should be butterfly rolled into the concrete to provide uniform coverage.

NOTE: For safety and product curing, proper ventilation is necessary throughout application and cure. When using pigmented Finish Coats, be sure the batch numbers are all the same to provide a uniform color.

Do not apply if the surface temperature is within 5° of the Dew Point. KM-1850 Base and Hardener should be stored at 75°-85° F to help maintain a lower, rollable viscosity. Do not apply when material is cold. Allow a minimum of 72 hours with good ventilation before putting floor back into service. If a non-skid finish is required, prepare a test patch for owner approval prior to application. These systems are designed for application by professional experienced flooring contractors.

## Cure Time

Temperature	Foot Traffic	Heavy Traffic
90° F.	12-16 hours	36-48 hours
75° F.	16-24 hours	48-72 hours
50° F.	36-48 hours	72-96 hours

## Precautions

KM-1850 Base is combustible. KM-1850 Hardener is corrosive. Keep away from all sources of ignition during storage, mixing, application and cure. The Hardener (Part B) either alone or when mixed with Base (Part A) can cause eye and skin burns as well as allergic reactions. When spraying, the use of goggles, fresh air masks or NIOSH approved respirators, protective skin cream, and protective clothing is recommended as a standard practice.

## Proper Disposal

For proper disposal of excess material, please contact your local city or county waste management agency.

**Limited Warranty:** The statements made on this bulletin, product labels or by any of our agents concerning this material are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control, Kelly-Moore Paint Company, Inc., does not make nor does it authorize any agent or representative to make any warranty of MERCHANTABILITY OR FITNESS for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Kelly-Moore's quality control standards. Any liability whatsoever of Kelly-Moore Paint Company, Inc. to the buyer or user of this product is limited to the purchaser's cost of the product itself.

**SEE MATERIAL SAFETY DATA SHEET FOR FULL SAFETY PRECAUTIONS**

**KM-1850 IS FOR PROFESSIONAL USE ONLY**

**KEEP AWAY FROM CHILDREN**