



KEY UNIVERSAL PRIMER/FINISH

DESCRIPTION

KEY UNIVERSAL PRIMER/FINISH is a one component, moisture cured polyurethane aluminum coating. **KEY UNIVERSAL PRIMER/FINISH** has excellent adhesion to sound, tightly adhered rusty steel, other marginal or poorly prepared metal surfaces, and properly prepared concrete. Its low viscosity, high "wetting" characteristics, creep, undercutting, and blistering resistance make **KEY UNIVERSAL PRIMER/FINISH** a superior primer and finish coat. **KEY UNIVERSAL PRIMER/FINISH** undergoes a rapid molecular weight change as it polymerizes into a high molecular weight finish with excellent corrosion and abrasion resistance.

KEY UNIVERSAL PRIMER/FINISH is an ideal barrier coat when upgrading existing finishes to strong urethanes, coal tars, etc., and may be used as a primer for all Key Vinyl Ester Systems. **KEY UNIVERSAL PRIMER/FINISH** must be used as a barrier primer applied in two coats (pinhole free) when applying Key Vinyl Ester over an existing epoxy basecoat. The low solvency power of **KEY UNIVERSAL PRIMER/FINISH** enables it to be applied over most types of coatings without causing lifting. A test sample should be made to confirm adhesion. Most generic types of chemical or conventional coatings may be applied over **KEY UNIVERSAL PRIMER/FINISH** with excellent adhesion.

KEY ADVANTAGES

- Excellent primer for all types of surfaces.
- Superior "wetting out" properties over sound, rusty steel.
- Can be recoated in 1 to 2 hours and can be top coated with most generic type coatings.
- Cures down to 25°F on dry surfaces.
- Corrosion resistant: Passes 12,000 hours in salt cabinet.
- Good weather resistance.

KEY CONSIDERATIONS

- Do not apply over frost, wet/damp surfaces, or in very high humidity conditions.
- Not recommended for use as tank lining for constant immersion.
- Must be recoated within 24 hours.
- Seal partially used containers to prevent material from reacting with moisture in air.
- Must be tacky when topcoated with Key Vinyl Ester or poor adhesion will result.

TECHNICAL DATA

Color	Aluminum
Gloss	Low sheen
Recommended Coverage Rates for Steel	866 sq. ft. per gallon @ 1 mil DFT; 433 sq. ft. per gallon @ 2 mil DFT
Recommended Coverage Rate for Concrete or when used as Barrier Coat	250 sq. ft. per gallon per coat Two coats required for barrier coat to ensure pinhole free coating
Mix Ratio	1 component, mix well
Application	Roll, brush, or spray
Application Temperature	25°F to 140°F dry
Cure Time	1-2 hours @ 75°F and 50% RH; recoat 2-24 hours
Service Temperature	Up to 400°F dry
Self Life	6 month minimum in unopened containers stored below 90°F.
VOC	356 g/L

APPLICATION

SURFACE PREPARATION

- Concrete:** Shot blast or grind to a medium grit texture similar to 60 grit sandpaper or ICRI CSP-3.
- Steel:** Sand blast to a SSPC-SP6 "commercial" blast finish. When blasting is not appropriate, remove all loose rust and mill scale by power wire brushing or hand tool cleaning. A tightly adherent rusty surface is acceptable.
- Galvanized Steel:**
 - New:** Brush blast per SSPC-SP7.
 - Old, Weathered, or Rusty:** Remove all oil, grease, dirt, and other foreign matter. Surface should be reasonably clean, dry, and free of contaminants. Remove all loose rust, etc., as outlined above under **Steel**.
- Previously Painted Surfaces:** Remove all loose, peeling, or blistered paint, and any other surface contaminants. Make sure surface is sound and dry.

CAUTIONS

Proper ventilation is necessary when coating indoors or in confined areas. Vapors and spray mist may cause eye/skin irritation as well as allergic reactions. Always wear protective clothing, goggles, and use NIOSH approved respirators. Combustible, keep away from all sources of ignition. For industrial use only. Keep out of reach of children.

INSTALLATION

Mix **KEY UNIVERSAL PRIMER/FINISH** so that the aluminum pigment is thoroughly dispersed in the resin and a uniform "silver" color is achieved. When using **KEY UNIVERSAL PRIMER/FINISH** over an extended period, stir occasionally to maintain uniform mixing of the material. Normally, it is not necessary to thin **KEY UNIVERSAL PRIMER/FINISH**, contact your **KEY RESIN Technical Services**.

KEY UNIVERSAL PRIMER/FINISH may be applied by brush, roller, or spray. Roller covers should have a phenolic core and brushes should have natural bristles. Sprayers should have a moisture/oil trap for incoming air. Flush fluid lines with an anhydrous (water free) solvent prior to spraying **KEY UNIVERSAL PRIMER/FINISH**. Flush sprayer every 1 to 2 hours during use to keep lines free of material build-up.

KEY UNIVERSAL PRIMER/FINISH may be applied at temperatures between 25°F and 140°F. **KEY UNIVERSAL PRIMER/FINISH** cures to a tack-free finish in 1-2 hours and can be recoated between 2 and 24 hours @ 75°F with 50% Relative Humidity. **KEY UNIVERSAL PRIMER/FINISH** must be tacky when topcoating with Key Vinyl Ester or poor adhesion will result.

CLEAN-UP

Clean up immediately with thinner. Remove from skin while still wet. Scrub skin with soap and detergent.

WARRANTY

Key Resin Company ("Key") warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of **Key**. If any product fails to meet this warranty, the liability of **Key** will be limited to replacement of any non-conforming material if notice of such non-conformity is given to **Key** within (1) one year of delivery of materials. **Key** may in its discretion refund the price received by **Key** in lieu of replacing the material. No customer, distributor, or representative of **Key** is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of **Key**. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. **Key** reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. **KEY'S** OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND **KEY** SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.