•TRUSTED QUALITY SINCE 1921•

RUST-OLEUM®

EPOXY Shield®

PROFESSIONAL FLOOR

INSTRUCTION SHEET

Read all instructions carefully before starting project.

To ensure best performance, **DO NOT PAINT IF THE FOLLOWING CONDITIONS EXIST:**

- **Sealed concrete -** Determine if there is a concrete sealer present by dripping a small amount of water onto the surface. If the water beads, a sealer is present and paint may not adhere properly.

- **Poorly bonded previous paint -** If the floor is previously painted, remove any loose paint by sanding and scraping. Test the adhesion of the remaining paint on the surface by doing the following:

  1. With a single-edged razor blade, cut an X through the coating and down to the concrete.
  2. Apply a 4" piece of duct tape over the X and press firmly.
  3. Completely remove the tape with one quick pull.
  4. If more than 25% of the taped area is removed with the tape, the original coating is not adhering well, and the floor should not be coated with **EPOXYShield** unless all previous paint is removed using a concrete floor sander or suitable paint stripper.

  If previous coating is well bonded, scuff sand the surface after cleaning to ensure a tight bond between the two coatings. Rinse thoroughly.

  WARNING! If you scrape, sand or remove old paint, 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. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to **www.epa.gov/lead**.

- **Moisture in the concrete -** Apply a 2' x 2' sheet of plastic (such as a heavy-duty garbage bag or 1 gallon plastic storage bag) to an area of the floor. Tape down the edges with duct tape and allow to set for 24 hours. If water droplets appear on the inside of the plastic or if concrete appears wet (darker in color), moisture is trapped in the concrete and the floor should not be painted.

- **Loose or poorly cured concrete or concrete dust -** If the concrete is loose, chipping (spalled), or has concrete dust present, the coating will not perform properly unless all loose material and dust is removed and damaged areas repaired.

Apply when air (ambient) temperature is 60-100°F (16-38°C) and relative humidity is below 85%. Minimum floor temperature for painting is 60°F (16°C). Allow newly poured concrete to cure for a minimum of 28 days prior to coating.

Preparation Instructions

Remove any oil or grease spots on your floor. Use a scrub brush and a cleaner/degreaser or use a solvent such as mineral spirits. Scrub the spot thoroughly and wipe up excess cleaner with rags or paper towels to keep contaminants from spreading. Rinse thoroughly with fresh water. Repeat as necessary to completely clean.

Scrape, wirebrush or use a power sander to remove loose or unsound concrete, masonry or deteriorated coatings. Rinse or sweep away dust and other particles. Wash entire floor with suitable detergent or cleaner using a stiff bristle brush. Thoroughly rinse and allow to dry.

Etching is necessary to ensure proper adhesion of the coating to the concrete. Wearing gloves and protective eyewear, slowly add one part phosphoric or muriatic acid to four parts water in a plastic watering can (follow manufacturer's directions).

Pre-wet the floor, then distribute the acid solution over a 10' x 10' section of the floor. Scrub with a stiff bristle brush. The acid solution should fizz for about 3-4 minutes while being scrubbed. When the fizzing stops, mop or hose off the solution and move on to the next section. When all sections are completed, rinse three times and scrub with a stiff bristle brush while rinsing. For best results, use a foam or rubber squeegee to remove the rinse water from the surface. A wet/dry vacuum can also be used to eliminate excess water, dirt and contaminants. Do not leave pooled water on the floor.

Allow the floor to dry completely. Wipe your fingers over the clean, dry floor. If you see any dust or powder on your fingers, repeat the rinsing and scrubbing until the floor is clean. If your fingers remain clean, continue to the next step.

EPOXYShield Mixing

Do NOT mix the decorative paint chips with **EPOXYShield.** Stir the contents in each can thoroughly. Pour part B into a 5-gallon bucket, then add part A. Mix well for 2-5 minutes. Power mixing is preferred. **It is critical to mix thoroughly to ensure material is fully activated. Wait 30 minutes before applying mixture at temperatures between 70-100°F (21-38°C), and 60 minutes at temperatures between 60-70°F(16-21°C). See charts for appropriate application times and pot life. Do not leave container in direct sunlight.** Pot life is reduced if more than 2 gallons are mixed or if temperatures exceed 90°F(32°C). See chart 1 at right for details. **NOTE:** Parts A and B must be mixed as stated. **NOTE:** Painted floors may be slippery when wet. If desired, anti-slip additive may be added to the mixed coating (follow manufacturer's directions). **If using more than one kit, do not mix kits at the same time. To ensure even gloss and color, the coating must be applied within the times stated on the charts**.

EPOXYShield Application

After the 30 or 60 minute standing time, use a brush or edger to trim the perimeter and areas where a roller cannot reach. Use a long handled roller with an epoxy-safe, 3/8" nap cover to apply an even coat of **EPOXYShield** onto the surface. Apply in 4' x 4' sections so that the decorative paint chips can easily be scattered on the freshly coated surface. Maintain a wet edge to prevent lap marks and gloss differences.Toss the decorative paint chips onto the wet film. This step may be skipped if chips are not desired. This will not affect the performance of the coating. Immediately continue to coat the next section. (Note: Fresh paint can be applied over the loose chips that lay outside the previously painted area.) Only one coat is necessary. If a second coat is desired, see chart 2 at right for recoat times. **This product must be used within the pot life indicated. If product is used beyond the recommended pot life, the coating may appear to have uneven gloss and color. Do not leave container in direct sunlight.**

EPOXYShield Coverage

Each **EPOXYShield** kit contains enough surface treatment to cover 300-400 square feet of smooth, bare concrete. Very rough or porous concrete may require more material.

Dry Time

Surface should be ready for light foot traffic in 16 hours, heavy items and normal foot traffic in 24 hours. FOR FULL CURE AND VEHICLE TRAFFIC, ALLOW 4 DAYS. Note: Dry times increase at cooler temperatures.
See chart 2 below for details.

EPOXYShield Clean-Up

Dispose of rollers and brushes that were used to apply the epoxy. Buckets and spills can be cleaned with xylol. Allow any unused product to harden in the container and discard all materials according to local regulations.

Note: Do NOT store your roller cover and/or brushes in the freezer. Epoxies contain strong solvents which will evaporate from the rollers and contaminate the contents of the freezer.

Safety Information

AVOID CONTACT WITH SKIN AND EYES
FIRST AID: In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin contact, wash thoroughly with soap and water. If swallowed, do not induce vomiting. Call physician immediately.

KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

Rust-Oleum Technical Support

For any questions or comments, call the **EPOXYShield** toll-free Technical Support line between 7:30 am - 5:00 pm CST at 1-888-NUFLOOR (683-5667).

CHART 1

Pot Life:

	2 Gallons (1 kit)	4 Gallons	10 Gallons
70°F (21°C)	3-5 hours	3-4 hours	approx. 3 hours
90°F (32°C)	2-3 hours	approx. 2 hours	less than 2 hours
more than 90°F (32°C)*	less than 2 hours		

**At temperatures of 90°F or higher, thin activated material with 10% acetone.*

CHART 2

Dry times:

Temperature	Relative Humidity	Tack Free	Recoat	Light Foot Traffic	Heavy Items and Normal Foot Traffic	Vehicle Traffic
70°F (21°C)	50%	8-10 hours	16-72 hours	16 hours	24 hours	4 days
50°F (10°C)	50%	14-24 hours	72-96 hours	48 hours	72 hours	12 days