

### SOLVENT BASED EPOXY PROFESSIONAL FLOOR COATING



#### DESCRIPTION

A two component, high solids epoxy floor coating.

#### USES

Professional Floor Coating is designed for higher traffic concrete floors in mild to moderate environments. It can also be used on steel decking or previously coated floors which are in good sound condition. It is not intended for use on unsound previous coatings or floors that have a moisture problem.

#### APPEARANCE

Semi gloss finish. Solid base color with a color fleck finish. Available in Silver Gray, Dark Gray, Dunes Tan and Tile Red colors.

#### PACKAGING

EPOXY Shield Professional Floor Coating is supplied as a 2 gallon kit, which contains one gallon of Part B Base, one gallon of Part A Activator and the decorative color chips.

#### SURFACE PREPARATION

(See directions in kit box for more details)

Allow new concrete to cure for a minimum of 28 days. Check the garage for conditions that might interfere with proper adhesion (see directions sheet). Clean and remove any oil spots or spills and wash the floor with a suitable detergent or degreasing solution and rinse.

If the concrete is free of curing agents or sealers, then etch the concrete with muriatic acid. Rinse thoroughly and immediately, and allow to dry. After completion, the concrete should have a texture, which resembles fine grit sandpaper. Repeat the process if necessary. Consult with kit directions sheet for complete application instructions.

When the floor is dry, rub your fingers on the concrete and check for a white film. If a white dust or powder is detected, then repeat the rinsing process being sure to thoroughly scrub during the rinse. Once the concrete is free of surface residue, you are ready to begin application of the coating.

#### Previously coated floors:

Make sure the floor is clean and dry. Use a wire brush to remove any loose or peeling paint or stain. If floor is sealed, the sealer will have to be removed by grinding or shot blasting. To ensure proper adhesion, scuff sand the entire surface.

#### MIXING

Premix both components (Parts A and B) to re-disperse any settled particles before pouring Part B into a 5 gallon pail. It is critical to add all of Part A to B and mix for 2-5 minutes. Power mixing is preferred. Do not mix the color chips in with the coating. Allow the coating to stand before using – 30 minutes if the temperature is 70 – 100°F (21 - 38° C) 1 hour if it is between 60 and 70° F (16 - 21°C). Mix again just prior to application. The activated coating must be used within 2 to 5 hours after the mixing based on temperature.

#### APPLICATION

After an appropriate standing time (see chart) begin to cut in the perimeter of the floor along the wall, or other areas where a roller cannot reach, using a brush or edger before beginning roller application. Use an epoxy safe 3/8" (9.5 mm) nap roller cover and 9" (.2 m) roller frame to apply an even coat of Epoxy Shield onto the surface. Limit the application to 4-ft by 4-ft (1.2m x 1.2 m) sections at a time to make it easier to distribute the colored chips onto the freshly coated surface. Scatter the decorative chips up and away from you so they land flat on the wet paint film, then continue on to the next section Note: fresh paint can be applied over the loose chips that lay outside the previously painted area. Maintain a wet edge to prevent lap marks and gloss differences. Make all final passes in the same direction to help ensure uniform appearance. Only one coat is necessary under most circumstances. Remember, Epoxy Shield must be used within 2 to 5 hours of initial mixing depending on temperature and size of mixture.

**PHYSICAL PROPERTIES** (Calculated values, may vary slightly from the actual manufactured material)

RESIN TYPE	Amine Cured Epoxy
SOLVENT TYPE	Xylene, Ethylbenzene, N-Butanol, Methyl Isobutyl Keto
VOC (Volatile Organic Compounds)*	<250 g/l (2.1 lbs/gal)
WEIGHT PER GALLON*	12.1 – 12.4 lbs
WEIGHT PER LITER*	1.4 – 1.5 Kg
SOLIDS BY WEIGHT*	82.5% - 84.7%
SOLIDS BY VOLUME*	69.1% - 72.1%

\*Activated material

RECOMMENDED DRY FILM THICKNESS PER COAT	3 ½ - 5 MILS (89 - 127µ)
WET FILM TO ACHIEVE DFT	5 - 7 mils (127 – 178 µ)
PRACTICAL COVERAGE @ RECOMMENDED DFT	Approximately 300 - 400 sq ft/kit (28 – 37 m <sup>2</sup> )
APPLICATION CONDITIONS	60° – 100° F (15° – 38° C) Humidity less than 85%
MIXING RATIO	1:1 By Volume, base to activator
INDUCTION PERIOD	30 minutes @ 70° – 100° F (21° - 38° C) 60 minutes @ 60° – 70° F (15° – 21° C)

POT LIFE @70° - 80°F (21° - 27° C) AND 50%RH  
Varies with temperature and gallons mixed – see chart in Directions.

DRY TIMES @70° - 80°F (21° - 27° C) AND 50%RH	
LIGHT FOOT TRAFFIC	16 hours
NORMAL FOOT TRAFFIC	24 hours
VEHICLE TRAFFIC	4 Days
SHELF LIFE	5 Years

**SAFETY** (For additional information, see MSDS)

FLASHPOINT  
Base component: 80°F (27°C) Activator: 40°F (4.4°C)

LEAD-FREE

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