EPOXYSHIELD

TECH DATA SHEET

WATERBORNE EPOXY GARAGE FLOOR COATING

DESCRIPTION

A two component, water reducible epoxy floor coating.

USES

The Garage Floor Finish is designed for finishing concrete garage floors that are in good sound condition and are free of curing agents and sealers. It is not intended for use on unsound previous coatings or floors that have a moisture problem.

APPEARANCE

Dries to a Gloss finish. Solid base color with a color fleck finish. Available in Gray or Tan colors and a tint base that can be tinted to 31 colors

PACKAGING

Epoxy Shield Garage Floor Coating comes as a kit - Part B Base 90 fl oz (2.67 l), Part A Activator 30 fl oz (0.89 l), decorative color chips, and the Epoxy Shield Concrete Etch.

SURFACE PREPARATION

(See directions in kit box for more details)

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

For best results when using the Concrete Etch, the concrete should be damp, but free of puddles. Mix the entire contents of the Concrete Etch granules with 2 gallons (3.79 l) of water. Use a plastic sprinkling can to evenly distribute the Concrete Etch solution.

Scrub the floor with a stiff bristle brush and make sure the floor stays wet during this process until you are ready to rinse. Pay special attention to the area where the vehicle tires normally stand. Continue to scrub while rinsing to ensure all contaminates are washed away. Squeegee off excessive water or puddles and allow to dry.

For best results, clean 10 x 10 foot (3 x 3 meters) sections at a time. Completely wash, rinse, and squeegee each section before moving on to the next. When all the sections have been completed in this manner, then re-rinse and squeegee the entire floor.

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 adding the activator (Part A) to the base (Part B). It is critical to add all of Part A to B and mix for 3 minutes. Do not mix the color chips in with the coating. Allow the coating to stand before using – see chart in directions for time needed based on temperature. Mix again just prior to application. The activated coating must be used within 1 - 2 hours after the mixing based on temperature.

APPLICATION

After an appropriate standing tine (see chart) 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 ½” (12.7 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, then continue on to the next section.Note: fresh paint can be applied over the loose chips lying outside the previously painted area. Maintain a wet edge to prevent lap marks and gloss differences. Only one coat is necessary under most circumstances. Epoxy Shield must be used within 1 to 2 hours of initial mixing.

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

RESIN TYPE	Amine Cured Epoxy
SOLVENT TYPE:	Ethylene Glycol Monopropyl Ether, Water
VOC (Volatile Organic Compounds)*	<100 g/l (0.8 lbs/gal)
WEIGHT PER GALLON*	10.5 lbs
WEIGHT PER LITER*	1.3 Kg
SOLIDS BY WEIGHT*	62.6%
SOLIDS BY VOLUME*	52.6%
*Activated material	
RECOMMENDED DRY FILM THICKNESS PER COAT	3 mils (76 µ)
WET FILM TO ACHIEVE DFT	6 mils (152 µ)
PRACTICAL COVERAGE @ RECOMMENDED DFT	Approximately 250 sq ft/kit (23 m²)
APPLICATION CONDITIONS	60 – 85 degrees F (15 – 29 degree C) Humidity less than 85%
MIXING RATIO 3:1	By Volume, base to activator
INDUCTION PERIOD	Varies with temperature – see chart in Directions.
POT LIFE @70° - 80°F (21° - 27° C) AND 50%RH	Varies with temperature – see chart in Directions.
DRY TIMES @70° - 80°F (21° - 27° C) AND 50%RH	
FOOT TRAFFIC	24 hours
VEHICLE TRAFFIC	3 Days
SHELF LIFE	5 years
SAFETY (For additional information, see MSDS)	
FLASHPOINT	205°F (96°C) activated material
LEAD-FREE	