

FLOORING EPOXY MIDCOAT TECHNICAL DATA SHEET

PLEASE NOTE

Thoroughly read Safety Data Sheets, product labels and the **SAFETY** section in this Technical Data Sheet. It's always best practice to test your color technique/application on a sample piece similar to your substrate, prior to starting your project.

DESCRIPTION

Stone Coat Flooring Epoxy Midcoat is a high-quality, 100% solids flooring epoxy that offers a superior coating with minimal odor. Engineered for exceptional chemical resistance, this versatile epoxy can be used in various applications.

It's designed for the DIY enthusiast, providing extended working time and eliminating the offensive solvent smell. Stone Coat Flooring Midcoat is crystal clear and offers flexibility to meet your flooring needs. This multifunctional epoxy is perfect for creating seamless, designer metallic marble floors and industrial-grade floors in diverse settings such as manufacturing plants, warehouses, commercial kitchens, and residential garages, bathrooms, closets and in your entire home. It's compatible with both plywood subflooring and concrete slab substrate.

Stone Coat Flooring Epoxy Midcoat can be combined with colour additives like 3D metallic mica powders, liquid epoxy dyes, glitters, spray paints, and more. Additionally, it can bind clean kiln-dried decorative rock or be mixed with aggregate for concrete overlays or repairs.

PRODUCT FEATURES

- Chemical-Resistant
- Scratch-Resistant
- Renewable
- Easy to clean
- Zero VOC- 100% Solids
- DIY friendly
- Superior Adhesion

SIZES AVAILABLE

- 1.5 Gallon (6.83KG)

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PHYSICAL PROPERTIES

Mix Ratio by Weight	100 Resin : 44 Hardener
Mix Ratio by Volume	2 Resin : 1 Hardener
Mixed Viscosity (cps)	2,400
Work Time (minutes)	80-90
Total Cure Time (days)	7
Durometer Hardness (Shore)	D81
Maximum Casting Thickness (inches)	3
Heat Deflection Temperature (°C)	40
Tensile Strength (psi)	7,250
Elongation (%)	5.5
Elastic Modulus (psi)	112,000
Flexural Strength, 5% Strain (psi)	12,185
VOC (g/l)	0
Resin Colour & Clarity	Clear

BEFORE YOU BEGIN

Work Environment

The ideal working temperature is around 15-24°C in a clean, dry, dust-free environment. Working in high humidity will shorten the working time slightly. Keep the temperature above 15 degrees for the first 48 hours of curing.

Coverage

Coverage of the 1.5 gallon (6.83 KG) kit of Flooring Epoxy Midcoat depends on the colour scheme and required coverage of the floor. Here are some general rules of thumb:

- **Basic marble floor** with 2-3 metallic colors require 2-3 fluid ounces per square foot (650-950ml per square metre). This will give coverage of 5.9 - 9.3 square metres per 1.5 gallon (6.83KG) kit.
- **Deep flowing marble** with metallics and dyes require 4-6 ounces per square foot (1.3L – 1.9L per square metre). This will give coverage of 3-4.5 square metres per 1.5 gallon (6.83KG) kit.

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BEFORE YOU BEGIN (continued)

Materials

Be prepared with all necessary materials and tools before beginning your project. These items might include (but are not limited to) two-part flooring resin kit (Parts A and B), mixing containers, clean stir sticks, power mixer, gloves, torch or heat gun, drop cloth, Isopropyl alcohol, spiked shoes, rollers, magic trowel squeegees, etc.

MIXING & POURING

Note

Prior to mixing your Flooring Epoxy Midcoat, make sure your Moisture Sealing Primer has completely sealed the flooring surface and is within the recoat time of 14-24 hours. If the recoat time has passed, it is recommended to lightly sand with 220 grit sandpaper and clean prior to mixing. If the surface is not completely sealed, be sure to patch or reseal the surface to ensure no air will come up through the floor and effect your Flooring Epoxy Midcoat.

Step 1

Prepare 2 part Resin (Part A) and 1 part Hardener (Part B) by liquid volume. Pour in both part A and B into a clean, smooth-sided container large enough to hold all of the liquid, allowing room for mixing without spillage. Use graduated mixing containers help to ensure properly measured amounts of Part A and B. For larger projects mix in 5 gallon buckets. Any variance in this mix ratio may result in curing issues.

Step 2

The material must be mixed thoroughly for at least 3-5 minutes. Be sure to scrape the sides, corners and bottom of container midway through mixing. Be careful not to whip excessive air into the mixture.

Step 3

Pour the mixed resin separate buckets to mix in colors. Add in epoxy color additives and mix until colour desired is achieved. Do not exceed adding over 5% per volume of the liquid epoxy dyes and pastes into the epoxy. Roughly 1/2 ounce of liquid epoxy dye per 3-4 gallons of mixed epoxy provides good opacity and color. Ensure a good mix with the metallic powders for best results.

Step 4

Pour epoxy over horizontal surface, spread and meld epoxy colors together with a floor squeegee or roller.

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MIXING & POURING (continued)

Step 5

Use 91% isopropyl alcohol and mist the floor over any micro bubbles to help eliminate from the coating. A heat source can also be used to eliminate air bubbles incorporated into the epoxy while mixing and melding. Sweep a propane torch 50-75 mm from the surface, keep the torch head moving for best results. If any alcohol has been used previously, ensure it has had time to evaporate and that you are working in a well-ventilated area before using the propane torch.

Step 6

Curing times can vary by project, depending on the work area temperature during curing. Working time ranges between 75-85 minutes. Optimal curing temperature when completed with the project is between 18-27 degrees. Allow the Flooring Epoxy Midcoat to cure between 20-36 hours depending on work shop temperature during curing. Test product by touching the floor with your hand before walking to ensure a good cure.

CLEAN UP & DISPOSAL

Tools can be cleaned with Isopropyl Alcohol or a residue-free cleaner. Do not use soap and water. Dispose of product and container according to Federal, State and local regulations. Store any remaining product in the original bottles, tightly sealed and locked up in a cool, dry environment.

SAFETY

Before use, thoroughly read Safety Data Sheets and product labels. Follow safety precautions, directions, and wear appropriate personal protective equipment for your use and application.

Mixed epoxy generates heat. The larger the mass, the more exotherm/heat will be created. Monitor heat of mixed material in bucket to avoid heat build and shortening of work time. Only mix what is needed for your project. Please see FAQs for more helpful information prior to beginning your project.

DISCLAIMER

The information contained herein is considered accurate; however, Stone Coat makes no warranty regarding its accuracy. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.