

COUNTERTOP EPOXY

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 Countertop Epoxy is specially formulated for the DIY'er. Zero VOC's or nasty smell, long working time of 45 minutes, scratch and heat resistant, and super easy to epoxy coating designed to create stunning kitchens and bathrooms. Renew old countertop surfaces or make new ones from wood. Stone Coat Countertop Epoxy can also be used as a woodworking finish adding depth and protecting woodworking projects from moisture.

Complies with FDA 21 CFR 175.300
FDA Complaint – Food Contact (FDA 21 CFR 175.300)

PRODUCT FEATURES

- Heat-Resistant
- Scratch-Resistant
- UV Resistant
- Water Resistant
- Easy to clean
- Zero VOC – 100% solids epoxy
- DIY Friendly

SIZES AVAILABLE

- 0.5 Gallon (2.28KG)
- 1 Gallon (4.55KG)
- 2 Gallon (9.1KG)

PHYSICAL PROPERTIES

Mix Ratio by Weight	100 Resin : 90 Hardener
Mix Ratio by Volume	1 Resin : 1 Hardener
Mixed Viscosity (cps)	1,800
Work Time (minutes)	45-55
Total Cure Time (days)	7
Durometer Hardness (Shore)	D81

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PHYSICAL PROPERTIES (continued)

Maximum Casting Thickness (inches)	3
Heat Deflection Temperature (°C)	54
Tensile Strength (psi)	3,380
Elongation (%)	22
Elastic Modulus (psi)	112,000
Flexural Strength, 5% Strain (psi)	1,950
Flexural Modulus (psi)	69,400
Resin Colour & Clarity	Slight Grey/Violet

BEFORE YOU BEGIN

Work Environment

The ideal working temperature is around 18-24°C in a clean, dry, dust-free environment. Working in high humidity or temperature environments will shorten the working time. Keep the temperature above 18 degrees for the first 48 hours of curing.

Coverage (Based on applying both a colour coat and a clear coat)

- 0.5 Gallon (2.28 KG) kit = 10 sqft (0.93 sqm)
- 1 Gallon kit (4.45KG) = 20 sqft (1.86 sqm)
- 2 Gallon kit (9.1 KG) = 40 sqft (3.72 sqm)

Woodworking Seal Coat

A thin seal coat may be necessary when working with a porous surface or object like live edge slab wood or concrete. We suggest applying a thin coat as a seal coat at 1 ounce of mixed epoxy per square foot (320ml of mixed epoxy per square metre) of project to be coated.

Materials

Be prepared with all necessary materials and tools before beginning your project. These items might include (but are not limited to) two-part resin kit (Parts A and B), graduated mixing containers, clean stir sticks or power mixer, gloves, torch or heat gun, drop cloth, casting molds, paper towels, etc.

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MIXING & POURING

Step 1

Prepare 1 part Resin (Part A) and 1 part Hardener (Part B) by liquid volume. Pour the Hardener (Part B) first and then the Resin (Part A) 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. Any variance in this mix ratio may result in curing issues.

Step 2

The material must be mixed thoroughly for at least 3 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. If mixing a gallon or more at one time, use a power mixer. Avoid mixing at full speed to avoid introducing excessive air into the mix.

For smaller quantities, use stir sticks. Do not mix more than 3 gallons (13.65KG) at one time. If you need to mix several batches, be sure to use a clean, dry container for each batch. Using the same container may lead to curing issues. Note: Depending on countertop technique desired, apply colored epoxy to your countertop project. Pour the mixed resin into separate cups to mix in colours. Mix thoroughly to ensure powders and/or colors are consistent in color with no swirls or streaks before pouring.

Step 3

Apply thin layers of your mixed resin/colors onto your surface to achieve your desired color pattern. We recommend pouring no more than 3mm per coating layer/application, depending on mass and size of project being poured.

Step 4

To remove air bubbles that have risen to the surface of the poured resin, use a heat gun or torch in a sweeping motion across the surface, holding the heat source approximately 150 to 250mm away from the surface until no bubbles remain. Avoid heating any one spot for too long to prevent any blemishes or distortions in the finish.

Step 5

Curing times can vary greatly by project, depending on mass and the work area temperature. Working time ranges between 45-55 minutes. The Countertop Coat will be ready for another coat of epoxy in 14-24 hours with no need to sand. If you wish to apply another coat after 24 hours, lightly sand the epoxy with 220 and wipe the dust. Full cure and maximum hardness can require up to 3 days. Do not use or place any items on your project during this time.

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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.