



E4E 100-S

Technical Data Sheet

Product description

: An exceptionally high gloss, self-leveling epoxy coating, that is supplied as a 2 Parts A and 1 Part B by volume system. It has a long work time of 65 minutes which allows for extended work time to apply product. 100% solids (zero VOC) without the use of extenders or plasticizers enhancing durability and chemical resistance. Can be used on concrete floors, countertops and other decorative surfaces. When used on concrete floors it is recommended to be applied over a moisture vapor barrier primer. May be used as a pigmented topcoat with pigment packs or as a clear resulting in high gloss pigmented coatings or water white clear coats.

This Epoxy provides adhesion while providing excellent physical and chemical resistance. This coating meets LEED standards. Provides excellent resistance to abrasion and chemical resistance. This meets a variety of requirements such as durability, performance as well as aesthetics. This seamless coating offers an unlimited choice of color, and a smooth or nonslip finish can be achieved using a very fine to very aggressive aggregates. This system has been approved by the USDA Food Inspection Agency for surfaces. It meets LEED standards. CCTR also meets FDA and USDA as an antimicrobial surface. The key characteristics for any food-safe surface are that it must be smooth, non-porous, and durable to prevent bacterial growth and allow for effective cleaning and sanitization.

Advantages

- : Chemical resistance
- Zero VOC
- Longer work time
- Extended Pot life
- Chemical Resistance
- Excellent longterm capabilities

Uses

- : Retails Stores
- Parking Garages
- Commercial Buildings
- Offices Buildings
- Residential
- Hospitals
- Schools

Application Data	
Mix Ratio	2A:1B
Packing	3-Gal kit
Application Temp.	40°F-90°F
Shelf Life	12 months
Pot Life	25 min

Part A	
VOC's	0
Toxicity	See sds
Flammable	Non flammable
Color	Clear-slightly cloudy
Viscosity	1700-1900 cps
Wt per gallon	9.4 Lbs

Part B	
VOC's	0
Toxicity	See sds
Flammable	Non flammable
Color	Clear-amber
Viscosity	300-400 cps
Wt per gallon	8.2 lbs

Cure Time	
Working Time	40-60 min
Tack Free	4 hours
Recoat Time	6 hours
Full Cure	3 days
Foot Traffic	24 hours
Light Traffic	48 hours

Technical Properties		
Shore D Hardness	ASTM D-2440	85-90
Tensile Strength	ASTM D-638	550 psi
Flammability	ASTM D-635	<0.5%
Abrasion	ASTM D-4060	36 mg
Compressive Strength	ASTM D-695	8000
Elongation	ASTM D-412	6.7%
60 degree gloss	ASTM D-523	>95
Solids Content		100%
VOC Content		0
Mixed Viscosity		950-1150 cps

Surface Preparation: Concrete should be cured for at least 28 days before applying the Concrete should be clean, dry and free of oil, grease or agents that may inhibit proper adhesion. Practice proper testing procedures to soil acidity and moisture vapor transmission. Take a PH reading to ensure concrete is neutral. Prep Surface using a mechanical means with a CSP-2 or more. If being used as a recoat the floor should be sanded. Sand in a multidirectional way to create this finish. Then clean floor with xylene to remove all dust after sanding and to soften the existing layer. The use of xylene is mandatory.

Mixing: The mixing container must be clean and free from dust. In very hot water it is advisable to mix smaller batches to ensure good flow and workability. When mixing metallics premix into Part A before blending with Part B. Allow metallics to sit overnight. Combining ratio is 2 Parts A to 1 Part B. Pour onto floor immediately to prevent exotherm reaction. Proportion the amounts carefully and mix for 2 full minutes using a low-speed drill, scraping the bottom and sides of the mixing vessel.

Application: Normally applied 50-150sq. ft. per gallon by brush or roller. This epoxy should normally be recoated after an overnight cure period. However, if conditions are very cool and/or damp, 48 hours cure time should be allowed before recoating. If the product cures longer than 72 hours, the surface should be lightly sanded before recoating. When using a pigmented finish coat, keep a "wet edge" and do not attempt to roll over material that has begun to set as a change in color will result.

First aid: In case of contact with skin, wash thoroughly with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation. Consult the material safety data sheet for further information

Clean-up/Storage: Store in clean dry area. Do not freeze. Dispose in accordance with all state local and federal laws. Clean-up tools and equipment with xylene.

Important Notice: The information contained herein is provided in good faith and is believed to be accurate at the time of publication. However, because conditions of use and application methods are beyond the manufacturer's control, no guarantee or warranty, expressed or implied, is made as to the results obtained from the use of this product. Users are responsible for determining the suitability of the product for their specific application and should conduct appropriate testing prior to full-scale use. The manufacturer reserves the right to modify product formulations, specifications, and technical data without prior notice as part of ongoing product development and quality improvement efforts. The manufacturer shall not be liable for any direct, indirect, incidental, or consequential damages resulting from the use or inability to use this product. For the most current product information, technical support, or clarification of product limitations, users should contact the manufacturer directly.

