

endura E21

technical data sheet

DESCRIPTION

endura E21 is a 100% solids, pigmented epoxy floor coating designed to provide high gloss, chemical resistant protection. It is essentially odorless and can, therefore, be used in occupied areas. endura E21 provides a smooth, high gloss finish or, in a heavy body form, an orange peel, texture finish. It can be broadcasted with resin chips.

ADVANTAGES

- Low odor during application and cure
- Zero VOC
- Easy application and clean-up

SUBSTRATE REQUIREMENTS

- Substrate temperature must be a minimum of 50°F and relative humidity below 85% for proper curing.
- Substrate must be free of dirt, waxes, curing agents and other foreign materials
- On or below grade installation must have an efficient vapor barrier under the slab (min 10-15 mil).
- Moisture vapor transmission must be less than 3 lb per ASTM F1869 and less than 80% RH per ASTM F2170 unless Duraamen moisture mitigation system is used.)
- Not recommended for immersion in oxidizing agents or mineral acids

COMPOSITION

- 100% solids epoxy, aliphatic amines and fillers

COLOR SELECTION

- endura E21 is available in Standard Colors and custom colors as approved.

APPLICATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared as outlined in Duraamen's Technical Bulletin # 1. Work must be performed by trained or experienced contractors or maintenance personnel. The Duraamen Company's service department is pleased to answer any technical questions.

INSTALLATION

endura E21 is spread with a trowel or squeegee and back-rolled with a medium or short nap roller. Care should be taken to minimize the entrapment of air caused by over-rolling.

CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with Xylene or Lacquer thinner. Consult MSDS for safety and health precautions.

COVERAGE

endura E21 yields 160 s^q. ft. per gallon at 10mils film thickness.

AVAILABILITY

endura E21 is available throughout the United States and Canada. Contact Duraamen representative in your area for details.

MAINTENANCE

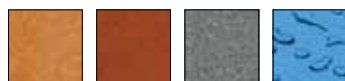
After completing the application of endura E21, the installer should provide the owner with maintenance instructions. endura E21 is easily cleaned with neutral soaps or detergents.

TECHNICAL SERVICE

Duraamen Building & Allied Products, Inc. provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces.

TECHNICAL DATA

Viscosity @ 75°F	1500cps
Mixing Ratio	4 parts A to 1 parts B
Solids Content	by volume
Volatile Organic Content	100% by volume
Weight Per gallon	-0-



CHEMICAL RESISTANCE

Reagent	Rating
Acetic acid – 10%	R
Ammonia Hydroxide – 10%	R
Brake fluid	L
Citric acid-5%	R
Crude oil	R
Diesel fuel	R
Ethylene glycol	R
Fatty acids	L
Gasoline	R
Orange Juice	R
Peroxide-35%	L
Tri-sodium phosphate – 5%	R
Sodium Hydroxide-50%	R
Urea – 6.6%	R
Vinegar	L
Xylene	L

R – Recommended for continuous service

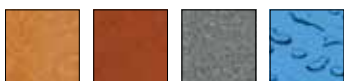
L – Limited recommendation, occasional spills

PERFORMANCE PROPERTIES

Tensile Strength ASTM C307	2300psi
Smoke Deposited ASTM E162	4mg max
Flame Spread ASTM 162	25max
Shrinkage ASTM C531	<0.5%
Adhesion ACI503R	300psi (100% concrete failure Type 1)
Hardness ASTM D2240	75 shore D
Abrasion, Taber CS-17 ASTM D4060	0.065 g loss
Impact Resistance MIL D 3134J	Withstands 16 ft/ lb. no cracking, delamination or chipping
Indentation MIL D 3134J	Withstands 2000 lbs/sq.in for 30min without indentation
Heat deflection temperature	1100F
Moisture Absorption	<1%
Flexural Strength ASTM C580	5000psi
Compressive Strength ASTM C579, 25 day cure	12000psi

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