

Epoxy.com Product #663

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Epoxy.com Product #663

Vinyl Ester Coating

DESCRIPTION

Epoxy.com Product #663 Vinyl Ester Coating is a 100% reactive, vinyl ester novolac used to coat concrete or steel surfaces in chemically aggressive industrial environments. Due to its high molecular weight and low permeability, it will withstand exposure to a broad range of acids, caustics, and solvents. Epoxy.com Product #663 Vinyl Ester Coating is designed for coating primary and secondary containment, trenches, troughs, pump pads, equipment, and structural members. Low temperature accelerators are available for positive cures at temperatures from 32° to 55°F.

ADVANTAGES

- Excellent resistance to a wide range of chemicals.
- High temperature performance; in many cases up to 350°F (spills) or 400°F (dry heat).
- Application by conventional painting techniques.
- Best overall performance coating for secondary containment.

- Self-extinguishing in thin films.

CONSIDERATIONS

- Substrate temperature must be a minimum of 50°F.
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials.
- Substrate must be completely dry.
- Requires skilled installers to assure successful results.

COMPOSITION

Two-component peroxide cured vinyl ester novolac.

APPLICATION

SURFACE PREPARATON

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared as outlined in [Epoxy.com Surface Preparation Recommendations](#). Contact Epoxy.com Technical Support with any questions.

MIXING/APPLICATION

Observe all precautions on MSDS and label when using this product. Mix 3-4 oz. Part B per gallon with Part A with a low speed drill for at least two (2) minutes. For spray application, add up to 1 quart Styrene per mixed gallon, if needed. Apply by roller, brush, or spray. Use a nylon or natural bristle brush or a good quality medium nap roller. Can be sprayed with airless or conventional spray.

CLEAN UP

Clean skin with soap and water; use MEK, xylene, or clean proprietary epoxy thinners for equipment.

COVERAGE

160 square feet per gallon yields 8 mils DFT due to shrinkage during cure. Two coats are recommended for general service.

COLOR SELECTION

Epoxy.com Product #663 Vinyl Ester Coating is available in #150 Dark Grey and Custom Colors as approved.

TECHNICAL DATA

Typical Performance Properties

Tensile Strength	ASTM D-638	11,000 psi
Elongation	ASTM D-638	2.0-3.0%
Adhesion to Metal	ASTM D-638	2,500 psi
Adhesion to Concrete	ACI COMM #403	350 psi (concrete fails)
Hardness	ASTM D-2240	85 (Shore D)
Abrasion Resistance	ASTM 4060 (CS-10 wheel, 1 kg load, 1000 cycles)	26-28 mg. loss

Service Temperature

320°F (immersion)

400°F (dry heat)

PHYSICAL PROPERTIES

Gloss	60◆
High Gloss Weight/Gallon	9.76 lbs.
mixed Solids Content	100%
Mix Ratio	32A:1B by volume
Pot Life	45 min. @ 70°F
Viscosity	600 cps, mixed approx
Shelf Life	Maximum 60 days from date of purchase
Re-Coat	5-8 hours @ 70°F.
Foot Traffic	8-12 hours
Full Chemical Cure	3-5 days

CHEMICAL RESISTANCE

REAGENT	RATING
Acetic Acid-100%	R
Acetone	L
Bleach	L
Citric Acid	R
Crude Oil	R
Diesel Fuel	R
Ethylene Glycol	R
Fatty Acids	R
Gasoline	R
Hydrochloric Acid-37%	R
Lactic Acid	R
Methanol	L
Methyl Ethyl Ketone	L
Nitric Acid-50%	R
Skydrol	R
Sodium Hydroxide-50%	R
Sulfuric Acid-70%	R
Toluene	R
Urea	R
Vinegar	R
Xylene	R

R-Recommended for continuous service.

L-Limited Recommendation, occasional spills.

*-May cause slight stain or discoloration.

Proper mixing and installation is critical to the optimal success of all product. See [Installation Tips](#), [Techdata](#), & [MSDS](#) for more details on our products. Be sure to contact us with any questions and/or concerns that you have.

For more information please contact:

Epoxy.com

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