

EpoPro[®] DR 63F-36A/B

TOUGH, SEMI-FLEXIBLE EPOXY COATING & POTTING SYSTEM

EpoPro[®] DR 63F-36A/B is a medium viscosity coating designed for topping of many different types of surfaces. It forms a rough, semi-flexible coating layer with excellent adhesion to concrete, wood, metal, glass, and many plastics. The cured coating has excellent resistance to attack by most acids, alkalis, soaps, oils, detergents, and household materials like food, ink, etc. When the chemical resistance of this system is tested in accordance with ASTM D129 and ASTM D1038, little or no change in weight is observed when the coating is submerged in AFFF Fire extinguisher materials for a 1 year period.

EpoPro[®] DR 63F-36A/B can be used as a base coating in seamless flooring systems and is available in more than a dozen colors. It has also been used in electrical potting and sealing applications where it provides excellent moisture resistance and electrical insulation properties. A unique feature of this system is the ability to cure at low temperature (as low as 50°F/10°C) and to cure even in slightly damp or humid conditions without blushing or spotting. This product is available in two part kits.

A clear, low viscosity version of this coating is available for use as a finish coating or even more flexible potting material. and an even thicker/higher viscosity version is available for applications where very high build or even greater chemical and abrasion resistance is required. Please contact us to discuss your application if you would like to receive samples of a modified system that customized to suit your application.

SUGGESTED APPLICATIONS:

- . Floor and industrial coating for indoor applications
- . Sealant & potting material for electrical applications.

HANDLING PROPERTIES	VALUE	TEST METHOD
<u>EpoPro[®] DR 63F-36A (resin)</u>		
Visual Appearance	Beige filled liquid (or as colored)	Visual
Density	1.55 g/cm ³	ASTM E-201
Viscosity at 25°C	50,000 cps	ASTM D-2393
<u>EpoPro[®] DR 63-36B (hardener)</u>		
Visual Appearance	clear, yellow to amber liquid	Visual
Density	1.01 g/cm ³	ASTM E-201
Viscosity at 25°C	200 cps	ASTM D-2393
Mix Ratio	100A:42B part by weight or 2A:1B by volume	
Viscosity Mixed at 25°C	15,000 cps	ASTM D-2393
Mixed System Solids Content	99% - 100%	

Product Datasheet



Pot life 2 gallon mixture in can at 25°C	15-20 minutes
Pot life 180 grams in can at 25°C	20 – 25 minutes
Pot life thin film on concrete at 25°C	1 – 2.5 hours
Tack-free time, 3-5 mil thin film at 21°C/70°F	12 hours
Recoat Time, 3-5 mil thin film at 21°C/70°F	10 – 14 hours
Minimum cure time, 3-5 mil thin film at 10°C/50°F	24 hours
Minimum cure time, 3-5 mil thin film at 21°C/70°F	16 hours
Full cure time, 3-5 mil thin film at 21°C/70°F	3-4 days

Curing Options: This system can be cured at room temperature or with heat. Minimum cure time at room temperature (21-25°C) is 16 hours and final properties may take 3-4 days at room temperature to fully develop. Heat curing options include 3 hours at 65°C or 2 hours at 80°C. To minimize shrinkage and stress on embedded components allow the epoxy to gel fully gel at room temperature (about 3-4 times the listed pot life for the mass being used) before heat curing. Allowing such a room temperature gel prior to heat curing may reduce curing shrinkage by 50% or more.

PHYSICAL PROPERTIES (Tested at 25°C unless otherwise noted – cured 3 hours at 75°C)

		TEST METHOD
Hardness, Shore A at 25°C	80A	ASTM D-2240
Tensile Strength	6,200 psi	ASTM D-638
Tensile Elongation	40%	ASTM D-638
Izod Impact, notched	>2.5 ft-lbs./inch	ASTM D-256
Taber Abrasion Resistance	18 mg loss/1000 revolutions	
Moisture Absorption (24 hrs. RT)	0.09%	
Volume Resistivity (ohm-cm) at 25°C	1.8×10^{14}	ASTM D-257
Dielectric Constant at 25 °C & 1 MHz	4.2	ASTM D-150
Dissipation Factor at 25 °C & 1 MHz	0.017	ASTM D-150

NOTE : Values are based on laboratory or average production results – not for specification purposes.

PROCESSING AND APPLICATION INSTRUCTIONS :

For two part kits of these system, the part A should be thoroughly re-mixed prior to use as it may settled or separate during shipment and storage. Once the part A is uniform, mixed the part A & part B at the indicated mix ratio by weight or volume. Mix for at least 2 minutes using a spatula or other mixing tool to ensure complete mixing. The mixed material may be applied in many different ways. For potting and casting applications it can be poured or dispensed into clean, dry components under ambient conditions or it may be vacuum de-gassing and/or warmed to reduce its viscosity and help to eliminate any voids or air bubbles. Please note that heating will shorten the work-life and gel time of the mixed material.

This product It may be applied as a coating or sealant by brush, roller, or trowel. For coating applications the fastest and most complete mixing may be achieve using a drill or jiffy mixer. Once mixed, pour the coating in a serpentine pattern over the surface to be coated and then spread with a brush, roller, or trowel.

PACKAGING AVIALABLE:

Several kit sizes include 10-gallon, 2-gallon, and 2-Quart kits. Other package sizes are available by request. Please contact us if you have specific packaging requirements.

STORAGE GUIDELINES:

Store two part kits these epoxy systems in a clean, cool, and dry environment in their tightly closed original containers. If crystallization occurs in either component, heat the entire container of the effected component for 4 hours at 50°C - 60°C to re-liquefy the material. Allow to cool to room temperature and then stir or use a paint shaker to ensure the material is uniform prior to use. Also protect from extended exposure to moisture or high humidity by tightly re-sealing the containers after use. If the recommended storage conditions are observed the products will have a minimum shelf-life of 12 months at 25°C from the date of shipment for 2 part kits. Pre-mixed and frozen syringes will have a minimum shelf-life of 12 months from date of shipment at -40°C or colder.

HANDLING PRECAUTIONS:

Mandatory and recommended industrial hygiene procedures should be followed whenever these products are being handled and processed. For additional information please consult the corresponding material safety data sheets.

PERSONAL HYGIENE:

See SDSs for latest safety information and handling precautions.

FIRST AID

In case of contact: **Skin** – Immediately wash skin thoroughly with mild soap and water. Remove contaminated clothing and wash before reuse. Destroy contaminated shoes and other articles made of leather. **Eyes** – Immediately flush eyes with plenty of water for 15 minutes and get prompt medical attention. **Inhalation** - Remove person to fresh air. Administer oxygen or artificial respiration if necessary. Call a physician. **Ingestion** - Do not induce vomiting. Dilute with plenty of water and contact physician immediately. Never give anything by mouth to an unconscious person.

DISCLAIMER:

IMPORTANT: The following supersedes Buyer's documents. **SELLER / MANUFACTURER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller / Manufacturer be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort, or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results presented are based on controlled or laboratory work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

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Former Delta Plastics Company Product*

*Please note that these products were original developed by Delta Plastics Company (also known as Epoxy Resin Innovators, Inc.). That product line was acquired by SP&S in December 2019. Some of the data listed in the datasheet may be based on historical information provided by Delta Plastics Company that may not have been independently re-verified by SP&S.