APF EPOXY NOVOLAC 900

PRODUCT DATA SHEET

PRODUCT DESCRIPTION

APF EPOXY NOVOLAC 900 is a 100% solids, a multi-functional epoxy system designed to give highly cross-linked coatings with resistance to a broad range of chemicals including 98% sulfuric acid, and most solvents. **APF EPOXY NOVOLAC 900** offers a workable pot life, blush-free cure and positive curing down to 40ºF. The material is available with a non-sag thickener for vertical application.

Designed high performance and ease of applications, **APF EPOXY NOVOLAC 900** is ideal for a variety of chemical-resistant applications. It is especially suitable in areas subject to high concentrations of acids such as metal plating, circuit board manufacturing, chemical processing, storage areas, and waste treatment plants.

APF EPOXY NOVOLAC 900 should be applied only as an aggregate filled system where heavy impact or mechanical abuse is expected.

USES

- Manufacturing
- Electroplating
- Battery Charging Areas
- Waste Treatment
- Pharmaceutical
- Chemical Storage

ADVANTAGES

- Excellent resistance to inorganic acids, 98% sulfuric acid
- Excellent resistance to elevated temperatures (<175ºF/80ºC)
- Will cure down to 40ºF (4.5ºC)

CHEMICAL RESISTANCE

Refer to APF Chemical Resistance Chart

COLORS

16 Standard colors & clear available.

PACKAGING

Supplied in complete A+B 1.5 gallon (5.7 L), 15 gallon (56.8 L).
Mix ratio 2A : 1B

TECHNICAL DATA

Mixing Ratio by Volume	2A : 1B
VOC Clear & Thixotropic	<1 g/l
VOC Pigmented & Thixotropic	16 g/l
Solids Content, by Volume	100%
Hardness, Shore D ASTM D-2240	82
Tensile Strength psi (ASTM D-638)	8,200
Elongation, % (ASTM D-638)	5%
Compressive Strength, psi (ASTM D-695)	12,500
Yield Strength, psi (ASTM D-695)	13,790
Flexural Strength, psi (ASTM D-790)	10,200
Bond Strength to Concrete (ASTM D-4541)	>350 psi, concrete fails
Cure Time (77ºF)	
Dry to Touch	~4Hours
Light Traffic	~10 Hours
Full Cure/Chemical Resistance	~7 Days
Cure Time (50ºF)	
Dry to Touch	~18 Hours
Light Traffic	~36 Hours
Full Cure/Chemical Resistance	~14 Days

Cure times are dependent on temperature and humidity

SURFACE PREPARATION

Concrete must be cured for at least 30 days and be clean, structurally sound, and free of wax, loose paint or curing compounds. Concrete should be shot blasted to achieve a surface minimum texture of ICRI 3 - 4. Refer to ICRI Technical Guidelines 310-330 *Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair.* Acid etching is not recommended and will void Manufacturer's warranty. Carefully follow the guidelines listed in the Arizona Polymer Flooring published application instructions available at www.apfepoxy.com. Vacuum prepared concrete surface to remove all dust. Previously coated surfaces that are soundly adhered must be mechanically cleaned and abraded to achieve uniformly gloss-free, open texture.

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MIXING

APF EPOXY NOVOLAC 900 is packaged in premeasured and bulk units. Proper proportioning and homogenization are critical for success. Mixing ratio is 2A : 1B. Premix both components for 3 minutes prior to blending. Do not attempt to hand mix. Be sure to move the drill around the mixing container scraping the sidewalls and bottom.

Add color pack if required to A component and blend thoroughly before adding B component. Bone-117, Safety Blue-077, Safety Red-083, Safety Yellow-063 & White-000 require 1 quart color pack loading for adequate hiding and coverage.

Add component B to component A and mix with medium speed drill mixer for three [3] minutes. Distribute material immediately after complete mixing.

APPLICATION

APF EPOXY NOVOLAC 900 is applied by roller, trowel or squeegee. Where impact or mechanical abuse is expected, **Epoxy APF NOVOLAC 900** must be applied as an aggregate-filled system at a minimum of 50 mils. The system may be applied as a self-leveling slurry, slurry-broadcast, or troweled system. For detailed installation instructions, see Arizona Polymer Flooring application manual.

CONCRETE MOISTURE

Test for concrete moisture in accordance with ASTM F2170–19. If moisture is indicated to be in excess of 85%, apply **APF VaporSolve®** system in accordance with the published technical data sheet. Consult APF Technical Service for further information.

LIMITATIONS

- Not suitable for constant temperature exposure over 175ºF (80ºC)
- Prior to application, measure and confirm that ambient temperature and humidity conditions are at least 5ºF over dew point.
- Not recommended as a clear topcoat for aesthetic applications.

SHELF LIFE

One [1] year from date of manufacture, in original unopened container. Store away from heat sources between 50ºF and 85ºF (10ºC – 30ºC).

HANDLING & SAFETY

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin; wear protective gloves. User must read and understand Safety Data Sheet before using. APF Safety Data Sheets are available at www.apfepoxy.com

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4565 W. Watkins Street, Phoenix, AZ 85043 • 800-562-4921 • 623-435-2277 • www.apfepoxy.com

For more information, please visit us at apfepoxy.com