ARMOR-REZ JET DECK 300

SYSTEM DATA SHEET
& APPLICATION
INSTRUCTIONS

SYSTEM DESCRIPTION

Armor-Rez Jet Deck 300 is a five-coat system engineered to meet the UFGS Specification 09 67 23.16 requirements for heavy duty flooring systems typical aircraft maintenance hangars. This system is comprised of an epoxy primer, epoxy mortar coat, epoxy grout coat, epoxy build coat, and a chemical and aviation fluid resistant urethane topcoat that will provide excellent chemical and abrasion resistance. Typical system thickness is 3/16 - 1/4-inch (4.75 - 6.3mm).

USES

- Aircraft maintenance hangars
- Equipment maintenance shops
- Mechanical rooms
- Heavy duty manufacturing facilities

ADVANTAGES

- High Solids, Low VOC
- Impact Resistant
- Abrasion Resistant
- Chemical Resistant
- Available in Fast Cure Formulas

COLORS

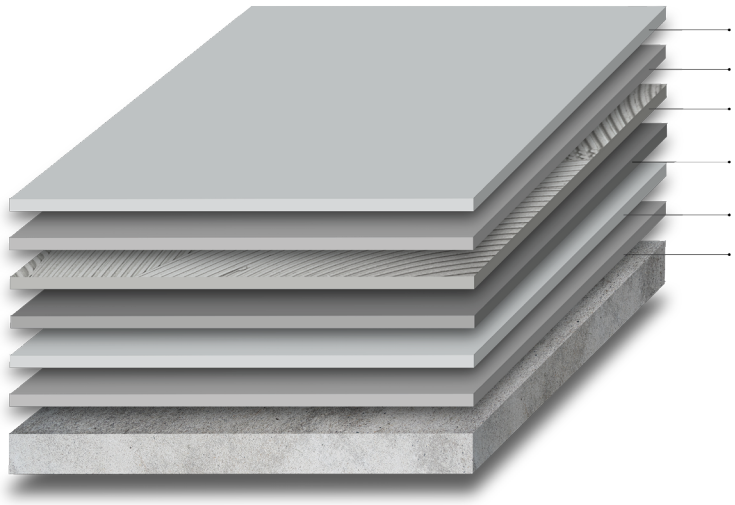
APF ARMOR-REZ Jet Deck 300 is available in 12 standard colors, Safety Red, Safety Yellow, and Safety Blue. Refer to APF Standard color chart.

TECHNICAL DATA

Compressive Strength (ASTM C-579)	11,500 psi
Tensile Strength (ASTM C-307)	2,500 psi
Flexural Strength (ASTM C-580)	4,000 psi
Hardness, Shore D (ASTM D-2240)	85-90
Flammability (ASTM E-648)	Class 1
Tabor Abrasion (ASTM D-4060)	34 mg loss
Coefficient of Friction (ASTM F-1679)	0.5 dry
Water Absorption (ASTM C-413)	0.2%
Bond Strength (ACI 503 4-2 3.2)	350 psi, concrete failure

Refer to product data sheet of individual system component for more information.

TYPICAL SYSTEM BUILD



Application of 2nd Topcoat: Polyurethane 100/100 VOC Pigmented

Topcoat: Epoxy 400 Pigmented

Grout Coat: Epoxy 400 Thixo

Epoxy Mortar Base: Epoxy 400 & Trowel Grade Sand

Primer: Epoxy 400

Patching, Filling, Moisture Vapor: Epoxy 300 Flex Paste, APF VaporSolve® System

Note: Diagram not to scale

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TYPICAL SYSTEM BUILD

COAT	PRODUCT	THICKNESS/COVERAGE
Patching, Filling, Moisture Vapor	APF Epoxy 300 Flex Paste, APF VaporSolve System	As required
Primer	APF Epoxy 400	200 sq. ft./gallon (8 mils WFT)
Epoxy Mortar Base	APF Epoxy 400 & Trowel Grade Sand	¼" Placement (40-50 sqft/100lb mix)
Intermediate Operation	Grind Cured Surface	As required
Grout Coat	APF Epoxy 400 Thixo	160 sqft/gallon (10 mils WFT)
Topcoat	APF Epoxy 400 Pigmented	160-200 sqft/gallon (8-10 mils WFT)
Application of 2nd Topcoat	Polyurethane 100/100 VOC Pigmented	250-300 sqft/gallon (5-6 mils WFT)*

*Topcoat coverage determines final texture.

APPLICATION INSTRUCTIONS

1.0 Concrete Moisture

It is the applicators responsibility to test for concrete moisture in accordance with ASTM F2170-19. If moisture is indicated to be more than 85%, apply APF VaporSolve system in accordance with the published system data sheet. Consult APF Technical Service for further information.

2.0 Surface Preparation

Concrete must be cured for at least 30 days, be clean, structurally sound, and free of wax, loose coatings, or curing compounds. Concrete should be adequately prepared to achieve a surface Minimum Texture of ICRI/CSP 2-3. Refer to ICRI technical guidelines 310-330, "Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair." Vacuum the prepared concrete surface to remove all dust. Acid etching is not recommended and will void the manufacturer's warranty.

3.0 Crack Repair

After the initial preparation has been completed, inspect the surface for indentations and holes. These must be filled prior to application using Epoxy 300 Flex Paste. After mixing Epoxy 300 Flex Paste according to the product data sheet, use the Epoxy 300 Flex Paste immediately. Spread the product with a flat trowel, margin tool, or broad putty/plaster knife. Gunning is not recommended for this material.

Apply to fill joint completely. Apply additional material if product settles into joint below the concrete surface. Cured product must be level with concrete surface. Allow to cure completely prior to applying primer.

4.0 Priming

After any patchwork/crack repair has cured, apply one coat of Epoxy 400 after mixing according to mixing instructions on the applicable product data sheet. Apply material onto surface immediately after mixing with a squeegee, back roll using a quality solvent resistant 3/8-inch nap roller cover. Apply at a rate of 200 sqft/gallon at 8 mils WFT. A "wet edge" is recommended when applying product, do not attempt to roll over material that has begun to set. An applicator wearing spiked shoes will back roll the wet material using a quality solvent resistant 3/8-inch nap roller cover to distribute the material uniformly. **The material must be thoroughly rolled twice to achieve optimal substrate wetting {using North-South, East-West Method.}**

Epoxy 400 must be recoated within a 24-hour recoat window. If this window is exceeded, the surface must be abraded with 80-100 grit to achieve a uniform, gloss-free, and dust-free texture before recoating.

5.0 Epoxy Mortar Basecoat Application

All drains, grease traps, and other similar fixtures must be completely sealed with tape before applying epoxy mortar. Tape should be pulled as the application proceeds. Combine epoxy 400 clear components and mix for 2-3 minutes using a slow-speed drill with a mixing blade. Using a mortar mixer, blend 1.5 gallons of epoxy mix with 100 lbs of trowel-grade sand, and mix for an additional 2-3 minutes. This mix ratio, applied at 5/16" and compressed to ¼", will cover 40-50 sqft. Place the entire batch of mortar on the floor and spread it to the desired thickness using a screed box or gauge rake. Finish smooth with either a hand or power trowel. Apply adequate pressure to compact the mortar as much as possible. Clean trowels frequently with solvent, as using a dirty trowel can result in a less desirable finish.

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6.0 Application of Grout Coat

After removal of all dust and debris as well as vacuuming the floor, mix the Epoxy 400 Thixotropic in accordance with the instructions on the product data sheet. Once the Epoxy 400 Thixo is completely mixed, apply to floor immediately using a squeegee, back roll utilizing a quality solvent resistant 3/8-inch nap roller cover. Apply at a rate of 160 sqft/gallon (10 mils WFT).. A "wet edge" is recommended when applying product, do not attempt to roll over material that has begun to set. An applicator wearing spiked shoes will back roll the wet material using a quality solvent resistant 3/8-inch nap roller cover to distribute the material uniformly. **The material must be thoroughly rolled twice to achieve optimal substrate wetting {using North-South, East-West Method.}**

7.0 Application of the Topcoat

Once the grout coat material has cured, sand out any imperfections, making sure to remove all dust prior to installing the Topcoat. After mixing the Epoxy 400 according to the product data sheet, apply the Epoxy 400 to the surface immediately using a squeegee, followed by a back roll with a quality solvent-resistant 3/8-inch nap roller cover. Apply at a rate of 160-200 sqft/gallon (8-10 mils WFT). A "wet edge" is recommended when applying product, do not attempt to roll over material that has begun to set. An applicator wearing spiked shoes will back roll the wet material using a quality solvent resistant 3/8-inch nap roller cover to distribute the material uniformly. **The material must be thoroughly rolled twice to achieve optimal substrate wetting {using North-South, East-West Method.}**

8.0 Application of 2nd Topcoat

After an overnight cure, mix the Polyurethane 100 or 100 VOC according to the product data sheet. Apply the material onto the surface immediately after mixing with a brush, roller or squeegee and back roll using a quality solvent-resistant 3/8-inch nap roller cover at a rate of 250-300 sq. ft./gallon (5-6 mils WFT). DO NOT allow puddling or accumulation in joint areas. A "wet edge" is recommended when applying the product; do not attempt to roll over material that has begun to set. An applicator wearing spiked shoes will back roll the wet material with a quality solvent-resistant 3/8-inch nap roller cover to distribute it uniformly. **The material must be thoroughly rolled twice to achieve optimal substrate wetting using the North-South, East-West Method.**

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