

SYSTEM DESCRIPTION

Armor-Rez CQ 100 is a 1/8th-inch thick decorative color quartz flooring system. This system offers excellent abrasion and impact resistance and can be combined with an optional polyurethane topcoat for areas needing improved chemical resistance and cleanability.

USES

APF ARMOR-REZ CQ 100 is ideal for locker rooms, restrooms, veterinary facilities, and clean rooms.

ADVANTAGES

- High Solids
- Impact Resistant
- Abrasion Resistant

COLORS

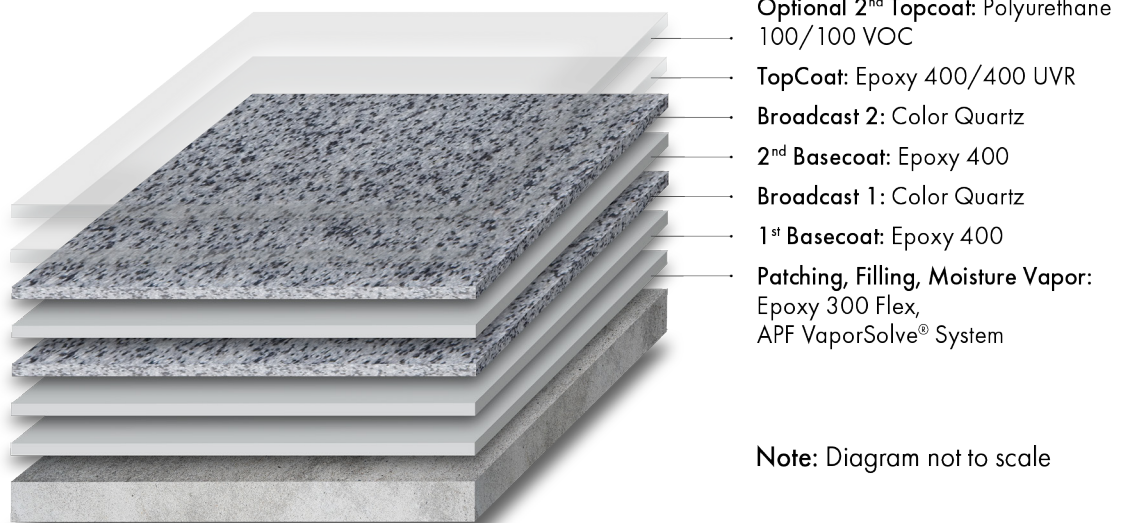
APF ARMOR-REZ CQ 100 is available in 10 standard color quartz blends, custom blends available. Refer to the APF Color Quartz Color Card.

TECHNICAL DATA

Compressive Strength (ASTM C-579)	13,780 psi
Tensile Strength (ASTM C-307)	8,590 psi
Flexural Strength (ASTM C-580)	13,945 psi
Hardness, Shore D (ASTM D-2240)	80-85
Impact Resistance (ASTM D-2794)	160 in-lb
Abrasion Resistance ASTM D-4060 (1000 gram load, 1000 cycles, CS-17 Wheel)	34 mg loss
Flammability (ASTM E-648)	Class 1
Coefficient of friction (ASTM F-1679)	0.8 dry

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

TYPICAL SYSTEM BUILD



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COAT	PRODUCT	THICKNESS/COVERAGE
Patching, Filling, Moisture Vapor	APF Epoxy 300 Flex, APF VaporSolve System	As required
1st Basecoat	APF Epoxy 400	100 sq. ft./gallon (16 mils WFT)
Broadcast	APF Blended Color Quartz	To Refusal ~0.5 lb. per sq. ft.
2nd Basecoat	APF Epoxy 400	100 sq. ft./gallon (16 mils WFT)
Broadcast	APF Blended Color Quartz	To Refusal ~0.5 lb. per sq. ft.
Topcoat	APF Epoxy 400/400 UVR	80-160 sq. ft./gallon (10-20 mils WFT) *
Optional 2nd Topcoat	APF Polyurethane 100/100 VOC	250-300 sq. ft./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 properly 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 sealer, coatings, polymer overlays, and concrete repair. Vacuum the prepared concrete surface to remove all dust. Acid etching is not recommended and will void manufacturers' warranty.

3.0 Crack Repair

Use Epoxy 300 Flex Paste immediately after mixing. Spread the product with a flat trowel, margin tool, or broad putty/plaster knife. Gunning is not recommended for this material. Apply it to fill the joint completely. Add more material if the product settles below the concrete surface. The cured product must be level with the concrete surface. Allow it to cure before the final coat.

4.0 Application of 1st Basecoat and Color Quartz Broadcast

After mixing the Epoxy 400 according to the product data sheet, apply Epoxy 400 onto surface immediately after mixing with a squeegee, back roll with using a quality solvent resistant 3/8-inch nap roller

cover. Apply at a rate of 100 sq.ft./gallon (16 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.}**

Allow the Basecoat to level for 10-15 minutes, then broadcast color quartz until refusal at a rate of ~0.5 pounds per square foot. Allow Basecoat to cure for ~6-12 hours prior to removing the excess quartz.

5.0 Application of 2nd Basecoat and Color Quartz Broadcast

Once all the loose quartz has been removed and the floor is vacuumed, mix the Epoxy 400 according to the product data sheet. Apply Epoxy 400 onto surface immediately after mixing with a squeegee, back roll with using a quality solvent resistant 3/8-inch nap roller cover. Apply at a rate of 100 sqft/gallon (16 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.}**

Allow the Basecoat to level for 10-15 minutes, then broadcast color quartz until refusal at a rate of ~0.5 pounds per square foot. Allow Basecoat to cure for ~6-12 hours prior to removing the excess quartz.

APPLICATION INSTRUCTIONS

6.0 Application of Topcoat

Once all the loose quartz has been removed and the floor is vacuumed, mix the Epoxy 400 according to the mixing instructions on the product data sheet. Immediately pour Epoxy 400 onto the surface in a ribbon pattern. With a squeegee, spread the material at a rate of 80-160 sqft/gallon (10-20 mils WFT). 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 North-South, East-West Method.}** 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. The application rate of the topcoat will affect the finished texture of the floor. Therefore, special care must be taken during this step to ensure that the proper texture is achieved. 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..

7.0 OPTIONAL Application of 2nd Finish Topcoat

After an overnight cure, mix the Polyurethane 100 or 100 VOC. Apply material onto surface immediately after mixing with a brush or roller, back roll with 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 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.}**

APF_ArmorRez_CQ_100_System_Data_11.10.25

STANDARD WARRANTY STATEMENT

ICP Construction, Inc. ("we" "us" or "our"), manufacturer of Arizona Polymer Flooring, warrants that the product is produced within specifications and is free from defects in material only. No warranty shall be in effect until our Terms and Conditions of Sales (<https://www.icpgroup.com/wp-content/uploads/ICP-Group-Terms-and-Conditions-of-Sale.pdf>) are met, including payment and cooperative promotional considerations. We warrant that the covered product is free of defects in material only and suitable for the specified purpose for a period of one (1) year from the date of shipment, provided the product is (a) installed within its published shelf life, in strict conformance with specifications, and (b) handled, stored, mixed, and applied in accordance with our written instructions. It is your responsibility to initiate any claim against this warranty within the time frame specified below. If we determine that the product meets the requirements of this warranty, then we will, at our sole discretion, either refund the purchase price of the product or provide replacement product, in each case not to exceed the affected area as determined by our authorized technical representative. To obtain replacement or refund you must (a) provide timely written notice to us specifying in detail the non-conformity suspected (no later than five (5) working days after discovery), and (b) provide proof of purchase. We reserve the right to inspect the product prior to replacement. EXCEPT FOR THE EXPRESS WARRANTY ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. IN NO EVENT SHALL WE OR OUR AFFILIATES BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES OF ANY NATURE, REGARDLESS OF THE FORM OF ACTION OR THEORY OF LAW, INCLUDING, WITHOUT LIMITATION, BREACH OF ANY OBLIGATION OR WARRANTY IMPOSED ON US HEREUNDER OR IN CONNECTION HERewith, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES IN ADVANCE AND EVEN IF A REMEDY SET FORTH HEREIN IS FOUND TO HAVE FAILED OF ITS ESSENTIAL PURPOSE. "CONSEQUENTIAL DAMAGES" SHALL INCLUDE, WITHOUT LIMITATION, LOSS OF USE, INCOME, OR PROFIT, OR LOSSES SUSTAINED AS THE RESULT OF INJURY TO ANY PERSON, OR LOSS OF OR DAMAGE TO ANY PROPERTY (INCLUDING, WITHOUT LIMITATION, PROPERTY HANDLED OR PROCESSED THROUGH THE USE OF THE PRODUCTS), DAMAGES OR LOSSES RESULTING FROM CLAIMS OF OTHER PERSONS AGAINST YOU, OR DAMAGES OR LOSSES SUSTAINED AS THE RESULT OF WORK STOPPAGE, OR REMOVAL AND REPLACEMENT COSTS AND COSTS OF LABOR. IN NO EVENT SHALL OUR LIABILITY ARISING IN CONNECTION WITH OR UNDER THIS WARRANTY (REGARDLESS OF THE FORM OF ACTION OR THEORY OF LAW) EXCEED THE AMOUNT PAID BY YOU FOR THE DEFECTIVE PRODUCT ONLY. THIS LIMITED WARRANTY PROVIDES YOUR EXCLUSIVE REMEDY FOR ANY DEFECT IN THE PRODUCT. If you do not agree with these terms, you may return the product within thirty (30) days of purchase for a full refund, provided the product is not opened, altered, or adulterated in any manner, less any shipping and handling charges of any sort. Use of the product, or retention of the product beyond thirty (30) days, constitutes your acceptance of this limited and exclusive warranty. No customer, distributor, or representative of ours is authorized to change or modify the published data sheets or this warranty in any way. No one is authorized to make oral warranties on behalf of us.