

PRODUCT DESCRIPTION

APF CEM-REZ EV 5500 is a multi-purpose product formulated for use as a modifying agent for Portland cement. When CEM-REZ EV 5500 is added to Portland cement, various sized aggregates and water, in accordance with the CEM-REZ EV 5500 Mixing Ratio Chart, it will provide superior adhesion and flexibility and allow the user to apply cement-based repairs at any depth or thickness.

CEM-REZ EV 5500 is used for structural repairs as well as thin-set resurfacing. CEM-REZ EV 5500 gives Portland cement unique properties that are unattainable by any other bonding agent, admixture or Portland cement modifier. CEM-REZ EV 5500 contains proprietary components which induce cross-linking in the presence of Portland cement, producing a co-adhesive bond.

COLORS

Clear

PACKAGING

Supplied in 1 gallon (3.78 L), & 5 gallon (18.93 L) units.

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.

TECHNICAL DATA

VOC Clear	<50 g/l
pH	4.0 to 5.0
Solids Content, by Weight	~56%
Compressive Strength (ASTM C-39)	8,550 psi
Slant Shear Strength (ASTM C-882)	3,000 psi
Freeze/Thaw 320 cycles (ASTM C-66-90)	Passed

Higher temperatures/Lower Humidity will shorten cure time. Lower temperatures/Higher Humidity will increase cure time.

COVERAGE RATE

Coverage rates cannot be estimated because Liquid Concentrate is a multi-purpose product. Applications and use will vary considerably depending on substrate, method of preparation, surface profile, surface porosity, mixing ratio and environmental conditions.

APPLICATION

Mix CEM-REZ EV 5500 with clean water thoroughly, using a drill and paddle mixer attachment according to Mixing Ratio Chart. Add cement and sand to pre-mixed Liquid Concentrate and water mixture. Mix sand and cement in accordance with ratios below. Additional water may be added after mixing to achieve desired consistency.

CEM-REZ EV 5500 MIXING RATIO CHART

(#) Silica Sand is represented as the required sieve/mesh size.

Types of Application	Clean Water PARTS	Portland Cement (White or Gray) PARTS	#12 Silica Sand PARTS	#16 Silica Sand PARTS	#20 Silica Sand PARTS	#30 Silica Sand PARTS	#60 Silica Sand PARTS	#90 Silica Sand PARTS	Calcium Carbonate (Marble Dust) PARTS
Spray Textures (Pool Texture)	3	1				1	1		
Thin-Set Resurfacing / 1/8" Overlay	3	1					2	1	
Overlayment up to 1/4"	3	1		2	1	1	1		
Anti-Skid to 1/8"	3	1				1	1		
Re-grading To 0" (Any Depth)	3	2	4	4	2	2	2		
Structural Repairs (Dry Slump Vertical)	3	2	4	4	2	2	2		
Wall Plastering Base Coat (Water Resistant)	3	2			2	2	2		
Wall Plastering Finish Coat (Water Resistant)	3	2						2	
Micro- Finishing From 0" - 1/64"	3	1							2

Types of Application	Clean Water PARTS	Portland Cement (White or Gray) PARTS	#1 or #2 Dry Plaster Sand PARTS	1/4" or 3/8" Washed Aggregate PARTS
Structural Repairs up to 1"	3	1	3	
Structural Repairs to 3" or greater	3	2	3	3

NOTE: Additional water may be added after mixing to achieve desired consistency.

LIMITATIONS

- APF Products are to be applied only when surface temperatures are above 55°F and rising and not to exceed 100°F.
- APF Products are not to be applied when precipitation is expected within 24 hours following completion of application.
- Do not allow materials to freeze.
- Each APF product acts as an inherent part of a proven system.
- APF Products are professional, contractor grade products.
- Training in the use of these products is available. Consult a APF Products representative for information and assistance locating approved contractors in your area or for training class dates.
- Use of kerosene or propane forced air heating equipment during application may cause discoloration and finish defects.

SHELF LIFE

Twelve (12) months from date of manufacture, in original unopened container. Store away from heat sources between 50°F and 85°F (10°C – 30°C).

HANDLING, SAFETY & STORAGE

- Avoid contact with skin; wear protective gloves. Application personnel must read and fully understand product Safety Data Sheet before using. APF Safety Data Sheets are available at www.apfepoxy.com.
- Store away from heat sources. Store between 50°F and 85°F (10°C-30°C). DO NOT FREEZE. Frozen material is unusable and must be properly disposed of.

APF Cem-Rez EV 5500_PDS_03.31.25

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.