



Premium High performance Industrial Epoxy Coating
The Ultimate Clear Topcoat Designed for Metallic Systems

Product Technical Data Sheet
DCC Master Format™ 09 67 00



U.S. RESIN SUPPLY & MANUFACTURING

USRESINSUPPLY.COM



PRODUCT DESCRIPTION

Pro Epoxy for metallic floors is a premium, two-component (2:1), 0 VOC epoxy coating made from 100% solids, offering an exceptionally clear finish and remarkable self-leveling properties.

It delivers a sleek, flawless surface with outstanding chemical and abrasion resistance, setting the bar for high-performance coatings.

Engineered for demanding projects, **Pro Epoxy** boasts outstanding working time, providing greater flow, effective air release, and a longer application window. Whether working on intricate designs or large-scale surfaces, this premium epoxy coating helps create a smooth, even finish with ease.

With its advanced formulation, **Pro Epoxy** enables effortless application, producing luxury-grade results in a wide range of environments.

Its enhanced defoaming capabilities ensure a consistent and uniform surface, making it the ideal choice for high-end installations.

Pro Epoxy not only meets, but exceeds, the strict standards set by both the Canadian Food Inspection Agency (C.F.I.A.) and the FDA, ensuring it's well-suited for a variety of professional applications.

Pro Epoxy can also be used in combination with **EPOXYSTARZ™**, **AQUASTOP™**, **AQUASTOP™ FC**, and **PRO EPOXY™** products.
(Ask your U.S. RESIN SUPPLY & MANUFACTURING LLC™ representative for additional details).

BENEFITS:

- ★ Virtually odorless
- ★ VOC Compliant
- ★ Enhanced UV Blockers for prolonged protection.
- ★ High Sheen
- ★ Potential for LEED eligibility
- ★ Low maintenance
- ★ Superior mechanical and chemical properties
- ★ Extended working time.
- ★ Flawless finish
- ★ Enhanced Defoaming Properties
- ★ Superior Color Stability
- ★ Seamless Finish
- ★ Amazing Flow
- ★ Excellent chemical resistance
- ★ Impermeability / Mold resistant
- ★ VOC and EPA Compliant in all States and Canadian Provinces
- ★ CIFA, USDA, FDA, Food Safety Compliant

APPLICATIONS

The chemical and mechanical properties of the **Pro Epoxy™** provide excellent results for several applications.

- Pharmaceuticals
- Laboratories
- Garage floors
- Washrooms & Showers
- Kitchens
- Manufactures/Fabrication
- Corridors
- Public facilities
- Showrooms
- Schools
- Commercial Centers
- Hospitals
- Office buildings
- Retail Stores
- Other Residential applications
- Other commercial applications
- Or any other areas where delivering luxury-grade result is required.

COLORS

Clear
(Pigments sold separately. See chart for available colors)
Endless color and texture combinations can be achieved by dispersing colorful flakes, colored quartz, silica sand, or pigmented micas...

PACKAGING

The **Pro Epoxy™** kit consists of Resin Part A and Part B Hardener.

	Part A	Part B
3 Gallon Kit	2 Gallons	1 Gallon
15 Gallon Kit	10 Gallons	5 Gallons
Larger units available upon request		

TESTING

All surfaces are not the same. It is recommended to create a sample area before starting the project. The test should be performed on site, using the method offered by your U.S. RESIN SUPPLY & MANUFACTURING LLC™ representative to ensure good adhesion and color. A sampling area should also be performed on existing coatings to determine if there are any contaminants or if delamination will occur.

CHECK CONCRETE MOISTURE

Concrete must be dry before application of this floor coating material. Concrete moisture tests are required, either ASTM F1869 (calcium chloride) or ASTM F2170 (in situ RH probe) or any other methods approved by U.S. RESIN SUPPLY & MANUFACTURING LLC™.



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TEMPERATURE AND HUMIDITY VERIFICATION

Floor and material temperature must be at or above the published Technical Data Sheet requirements. Dew point must be 5°F (3°C) or more below the surface temperature. Do not apply if humidity is at or above 80%.

SURFACE PREPARATION

Surface preparation in accordance with: ICRI Guideline No. 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair. The pH of the concrete substrate should be at 9 or above. All bond-breaking material must be removed.

PHYSICAL PROPERTIES

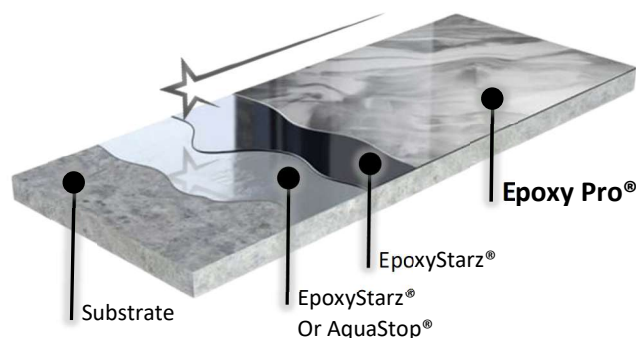
PROPERTIES	VALUES	REFERENCES
Compressive Strength	14,000 psi – 96MPa	ASTM C 579
Flexural Strength:	3,700 psi – 25.5MPa	ASTM D 790
Tensile Strength:	8,000 psi – 55.2MPa	ASTM D 638
Bond Strength (concrete):	350psi – (2.4) Concrete fails at this point	ASTM D 4541
Flammability	Self-extinguisher	ASTM D 635
Hardness (Shore D):	> 80 (24hrs)	ASTM D 2240
Water Absorption:	< 0.1% < 0.1%	ASTM D 570 MIL D 3134
Impact Resistance	No chipping, cracking, or delaminating	ASTM D 2240
Flash Point:	>200°F - >93°C	
Abrasion Resistance:	58 mg loss	ASTM D 4060
Volumetric Ratio:	2A:1B	
Solids Content by Volume:	100%	
VOC's:	<50g/L.	
Viscosity (cP):	Part A 127Ku/760gm/3509cP	Part B 51.5Ku/67gm/199cP
Density f:	Part A 1,15g / cm³	Part B 1,00g / cm³

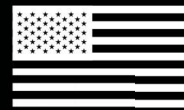
PRODUCT DATA

*Coverage (Wet Mils):	160.27 SQ. FT./Gallon @ 10mils
**Application Temperature:	Min 50°F (10°C) Max 90°F (32°C)
**Min Substrate Temperature:	Min 50°F (10°C) Max 95°F (35°C)
Thinner:	Not required
Pot Life @ 21°C (69.8°F):	20 minutes
**Drying / Curing Time :	
Working Time:	80 mins @ 77°F (25°C) 50% Rh
Tack Free:	16hrs @ 77°F (25°C) 50% Rh
Light Foot Traffic:	5-7 hours
Foot Traffic:	36 hours Light foot traffic 72 hours Heavy foot traffic
Vehicular Traffic:	72 hours @ 69.8°F (21°C) 31% Rh
Maximum Recoat Time:	24 hours
Shelf Life:	12 months (in original sealed packaging)
Storage:	Shelved at a min 15°C (59°F)
Transport:	Temp controlled at a min 15°C (59°F)
USDA Food & Beverage & CFIA:	Meets the requirements

*Coverage will differ depending on the quality, porosity, of the substrate, thickness, and application methods.

** Higher and lower temperatures and humidity levels will affect the pot-life, working time, and curing time.





CONCRETE SURFACE PREPARATION

> **Before applying the coating system, the concrete must be:**

- ★ Dry – No wet zones/stagnant water (<4%)
- ★ Clean – Eliminate all contaminants, dust, grease, delaminated coating, laitance, or any other contaminants that may prevent proper adhesion.
- ★ Profiled – Mechanically profiled Surface (Surface Preparation ICRI Guideline No. 310.2R Concrete Surface Profile (CSP2 and above) Depending on System to be Installed and Condition of Concrete, and/or approved by a U.S. RESIN SUPPLY™ Representative.
- ★ Sound – All cracks and chipped areas should be repaired with CRACK STARZ™, or any other methods approved by U.S. RESIN SUPPLY & MANUFACTURING LLC™.
- ★ Concrete preparation must be carried out by mechanical means such as shot blasting, grinding, sandblasting, or any other method approved by U.S. RESIN SUPPLY™.

PATCHING & REPAIRS

Cavities, cracks, and imperfections will be visible in the coating if the concrete is not repaired properly. Level and fill the concrete cavities with CRACK STARZ, POLYSTAR™ GROUT, or any other method approved by U.S. RESIN SUPPLY & MANUFACTURING LLC™.

Once the material is cured, correct any imperfections by diamond sanding. If a repair material other than U.S. RESIN SUPPLY™ & MANUFACTURING is used, contact a U.S. RESIN SUPPLY™ technical representative for approval of a compatible alternative.

MIXING

The mixing ratio for the PRO EPOXY™ is 2 for 1 (by volume). In other words, two parts A (resin) for one part B (hardener). Mix the PRO EPOXY™ using a drill and a mixing paddle.

1. Add the contents of the pre-measured PRO EPOXY™ and mix thoroughly for 3 minutes.
2. PRO EPOXY™ is designed to be immediately poured onto the floor. Leaving the mixed product in the container will greatly reduce the working time.
3. Do not leave the container dripping onto the floor.

APPLICATION INSTRUCTIONS

Always apply at decreasing temperatures. Concrete is porous and traps air. At rising temperatures (usually in the morning), the air expands and can cause gas to escape in the coating. It is safer to apply the coatings in the late afternoon, especially for exterior applications.

The optimum ambient temperature should be between 65-77°F (18-25°C) during application.

1. Mix the gallons of resin using the mixing instructions above.
2. Pour the content of the PRO EPOXY™ onto the surface, in a ribbon pattern, while walking and pouring at the same time until the bucket is empty.
⚠ Do not leave the container upside down dripping onto the floor.
3. Using a squeegee on an extension, pull the PRO EPOXY™ over the surface evenly covering the surface. Coverage will depend on the desired thickness and/or design patterns.
4. Using a 10mm microfiber roller, roll evenly forward and backward.
5. Finally, roll in the opposite direction as in step 4.
6. If an additional topcoat is required, ensure to have the surface cleaned of any debris and/or particles.
7. If any imperfections need corrections, sand any high points or imperfections, vacuum thoroughly, and ensure to have the surface cleaned of any debris and/or particles.
8. Apply topcoat.
9. If additional chemical, abrasion, and/or anti-slip protection is required, contact your US RESIN SUPPLY™ representative for recommendations.



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PRODUCT LIMITATIONS

Concrete slabs at ground level emit invisible moisture vapor. The permissible moisture emissions for concrete are 3 lb. / 1000ft² over 24 hours (<4%) based on calcium chloride test. Additionally, a relative humidity (RH) test can be performed to test for moisture vapor. Relative humidity test results should be less than 85% per ASTM F2170. If humidity is above this level, blistering and delamination of the coating may occur. A calcium chloride or relative humidity test should be performed to determine the moisture levels of the concrete. If humidity levels exceed 85% for RH test or 3 lbs. for calcium chloride, a concrete moisture vapor control system should be used before applying the coating system.

System recommended for cases of humidity above acceptable levels; AQUASTOP™, or AQUASTOP™ FC.

The AQUASTOP™, or AQUASTOP™ FC Moisture Vapor Barriers passes the F3010 specification based on E96 test results. Please contact a U.S. RESIN SUPPLY & MANUFACTURING LLC™ representative for details.

Coating systems are susceptible to cracking if the concrete moves or separates under the coating. Therefore, the treatment of joints and cracks should be reviewed prior to coating application. As a general rule, control joints (saw cuts) and random cracks should first be sawn or chiseled and then filled with **CRACKSTARZ™**. Construction / cold joints (two slabs that meet and therefore move) must be treated. Once the coating has been applied and cured, saw off the coating over the construction joints and apply elastomeric joint filler.

- ⚠ Higher temperatures and humidity levels may reduce working time
- ⚠ Lower temperatures levels may slow the drying and curing process.
- ⚠ Adequate ventilation is advised when products are exposed to high heat and humidity levels to reduce overheating and minimize the impact of the curing process.

WARRANTY

U.S. RESIN SUPPLY & MANUFACTURING LLC™ products are guaranteed for one year from the date of application. Please refer to the U.S. RESIN SUPPLY & MANUFACTURING LLC™ Hardware Limited Warranty for additional details.

DISPOSAL

- ⚠ Excess material (A and B) should be mixed and allowed to cure. Cured product may be disposed without restriction.
- ⚠ Uncured materials should be stored in a suitable and sealed container and may be disposed in accordance with provincial, State, municipal, and /or Federal regulations.

⚠ SAFETY WARNING

Avoid contact with the skin. Some people may be allergic to epoxy resin. Protective gloves, eyewear, protective clothing, and adequate ventilation are recommended.

For additional information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent **Pro Epoxy™** Material Safety Data Sheet containing physical, ecological, toxicological, and other safety-related data.

– KEEP OUT OF REACH OF CHILDREN –

– FOR INDUSTRIAL USE ONLY –

– KEEP FROM FREEZING –

The information presented is, we believe, accurate and compliant; however, it is presented without reservation and without warranty on the part of U.S. RESIN SUPPLY & MANUFACTURING LLC™. It is therefore the responsibility of the user to verify this data and to validate this information and the relevance of this product in the desired use. U.S. RESIN SUPPLY & MANUFACTURING LLC™ will not be held responsible for the use of this product in any system.

The Information, and in particular, the recommendations relating to the application and end-use of U.S. RESIN SUPPLY & MANUFACTURING LLC™ products, are given in good faith based on U.S. RESIN SUPPLY & MANUFACTURING LLC™ current knowledge and experience of the products when properly stored, handled, and applied under normal conditions, within their shelf-life. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product Technical Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.usresinsupply.com