

Engrave-A-Crete, Inc.

Technical Data Sheet (TDS) CR-535 Polyaspartic Aliphatic Polyurea

**This product may only be used on fully cured concrete. Allow a minimum of 28-45 days of cure time after the concrete is poured to allow ample time for the concrete to completely hydrate. It is recommended that a calcium chloride (or similar) moisture test be completed on any floor prior to application.

PRODUCT

Polyaspartic provides a high gloss clear coating, which is extremely durable and has a very rapid cure time.. Can be used for most types of applications over properly prepared surfaces. It has superior penetration and bonding strength, which can provide years of abrasion, impact, and wear resistance. It is resistant to chemical splash and spills as well as hot tire pick up.

APPROXIMATE COVERAGE RATES

Theoretical Coverage @ 80% Solids (Volume) per gallon	
DFT.....	1,283 ft. @ 1 mils
DFT.....	641 ft. @ 2 mils
DFT.....	428 ft. @ 3 mils
DFT.....	320 ft. @ 4 mils
DFT.....	257 ft. @ 5 mils
DFT.....	213 ft. @ 6 mils

Coverage rates depend upon many conditions including application method, surface porosity and applicator.

TECHNICAL INFORMATION

Solids.....	80%
Pot Life.....	25-30 minutes
Re-Coat Time.....	2-3 hours
Foot Traffic.....	3-4 hours
Wheel Traffic.....	24 hours (recommended)
Application Temp.....	40°F-85°F
Wet Appearance.....	Clear
Dry Appearance.....	Clear and Very High Gloss
VOC Content.....	<250 g/l
Blush Resistance.....	Excellent
Solvent Resistance.....	Excellent
Concrete Adhesion.....	Excellent
Meets USDA/CFSAN, U.S. Food Code, physical facilities criteria as outlined in 6.100.11 Surface Characteristics USDA acceptable. Not intended for 21 CFR food contact.	

*****Please note that low air and/or concrete temperatures and/or relative humidity may extend drying times. Follow recommended coverage rates for best results.**

PROPERTY PROFILE

Tensile Strength: ASTM D 638: 4,500 to 5,000 psi
Mandrel Bend ASTM D 522: Passes, no cracking, 1/8" mandrel bend
Falling Sand Abrasion Resistance ASTM D 968:
Clear...30 liters sand/ 1 dry mil

SHELF LIFE

Up to 12 months in its original, sealed, unopened containers.

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INSTRUCTIONS FOR USE

SURFACE PREPARATION: The concrete surface must be deemed mechanically and structurally sound, completely clean, and dry. To achieve the above desired results, a mechanical grinding method should be performed to an approximate 50-100 grit profile to insure flatness of the substrate, to remove surface impurities, and to profile the surface of the floor to aCSP-2, as recommended by the ICRI Technical Guideline No. 03732. If mechanical means of preparation are not suitable, it is recommended to prepare the surface with Concrete Resurrection Surface Prep and Etch solution. The final rinse must contain a neutralizing agent.

MIXING: Proper mixing is pertinent to application success. In equal parts (1:1), mix Part A and Part B using a clean, dry mixing container. Stir contents approximately 30-60 seconds. Avoid over-mixing or creating a vortex which could introduce moisture content to the mixture. No induction time is required prior to use, nor after mixing. If integrating anti-skid media agents, only do so after Parts A & B have been thoroughly mixed.

POT LIFE: Expected workable pot life after mixing Part A and Part B is approximately 25-30 minutes at a common temperature range of 70 F-80 F at roughly 50% relative humidity. Higher temperatures and high percentages of humidity will shorten pot life, as colder temperatures and lower percentages of humidity will extend the coatings pot life.

APPLICATION INSTRUCTIONS: Application should be completed using a 3/8" synthetic nap, phenolic core roller, or a lambs' wool cover for pigmented, stained floors, or media coats. Use a foam squeegee and back roll with the roller over media floors (quartz or chips). Please note that the use of pump-up style spray bottle may create visible bubbles, blisters, and pinholes and is not recommended.

CLEAN-UP

Use Xylene. Dispose of containers in accordance with local and federal regulations.

PRODUCT REMOVAL

Dried, cured polyaspartic may be removed by using a diamond grinding method, sandblasting method or similar mechanical action.

PRECAUTIONS AND LIMITATIONS

- ▶ Will not freeze during storage, however, allow temperature to rise to 50 degrees F prior to application.
- ▶ All HVAC ventilation ducts should be blocked prior to application so solvents fumes are not distributed.
- ▶ Keep away from open flames and other ignition sources. Polyaspartic is flammable and is susceptible to ignition.
- ▶ It is not recommended to apply to any floor without recommended preparation.
- ▶ Please be aware that this product when cured may be slippery when wet.
- ▶ May darken the surface of many new and existing concrete slabs. Test prior to use.

SPECIAL NOTES

Please consult Material Safety Data Sheet (MSDS) and read Warranty information prior to use.

Safety

Always use appropriate safety equipment including but not limited to, goggles, face shield, rubber gloves, chemical resistant clothing or apron, and chemical respirator. For exterior use only.

INHALATION: Vapors may cause dizziness, headaches, or nausea. Immediately move to fresh air. Seek medical attention.

EYES: Contact with eyes can cause severe burning, irritation, and blurred vision. Flush with water. Seek medical attention.

SKIN: May cause severe irritation and or chemical burns. Wash with soap and water. Seek medical attention. Keep out of reach of children. Use only with adequate ventilation.

Keep away from heat, sparks & flame. Vapors may cause fire. Avoid prolonged contact with skin. Use only with adequate ventilation. Avoid breathing vapors or spray mist. Do not take internally. If swallowed, do not induce vomiting. Call physician immediately. Close container after use.

It is the sole responsibility of the property owner or applicator to determine the suitability and safety of applying this product in areas of pedestrian traffic.

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Warranty

The Manufacturer and/or the Seller warrants that if any goods supplied prove defective in workmanship or material, that Manufacturer and/or Seller shall replace them or refund the purchase price. This warranty is made in lieu of any and all other warranties expressed or implied. Before application, the User shall determine the suitability of the product for his intended use and User assumes all risks and liabilities whatsoever in connection therewith. Under no circumstances shall the Manufacturer and/or Seller be liable for incidental, consequential or other damages for alleged negligence, breach of warranty, or strict liability arising out of use or handling of this product. The sole liability of Manufacturer and/or Seller for any claims arising out of the use or sale of the product shall be for the User's purchase price. Any claim of defective product must be received in writing within one (1) year from date of shipment.

Slip and Fall Precautions

OSHA and the American Disabilities Act (ADA) have standards for slip-resistance on pedestrian surfaces. The coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Concrete Stain & Supply, LLC recommends the use of slip-resistant additives in all sealers or coatings that may be exposed to wet, oily or greasy conditions. It is the installer and end users' responsibility to provide a flooring system that meets current safety standards. Concrete Stain & Supply, LLC or its sales agents will not be responsible for injury incurred in a slip and fall accident.