

CR-535 POLYASPARTIC

80% SOLIDS POLYASPARTIC POLYUREA

CR-535 Polyaspartic is a stand above all, two component polyaspartic aliphatic polyurea utilizing innovative proprietary nanotechnology. It provides a high gloss clear coating. Its superior penetration and bonding strength can provide years of abrasion, impact, and wear resistance. It yields chemical splash and spill resistance and hot tire pick-up resistance much like its epoxy counterpart.

Specifications / Compliances • Dried coating is USDA accepted.



KEY FEATURES & TYPICAL BENEFITS

- Excellent long term wear capabilities allow for longer life without re-coating.
- Quick dry time provides unmatched labor saving capabilities above epoxies and polyurethanes
- UV stability allows this to be used in areas saturated by the sun throughout the day.
- Can be tinted for solid color applications with *Concrete Coatings Coloring System CR-471-Polyaspartic*.

Typical Properties & Technical Information

PROPERTY	VALUE
Solids/Active Content, Percentage by weight	80% +/- 1%
Pot Life	20 - 30 minutes
Dry Time - Tack Free	2 - 3 hours
Dry Time - Foot Traffic	3 - 4 hours
Dry Time - Heavy Traffic	24 hours
Re-Coat Time Window	2 - 18 hours
Application Temperature	50° F - 80° F
VOC (Volatile Organic Compound) Content	Less than 250 grams/Liter mixed A&B
Appearance - Dry	Clear and High Gloss

Information above is based on lab temperatures of 70° - 72°F at 50% RH. Using this product outside these conditions may affect the accuracy of the information above. Always test prior to use!

ALWAYS REFER TO SDS & READ FULL TECH DATA SHEET AND WARRANTY INFORMATION PRIOR TO USE.

RECOMMENDED APPLICATIONS

- Garages
- Auto Service Centers
- Laboratories
- Cafeterias
- Many other interior concrete floors where a fast curing, high performance coating is necessary.

FOR PROFESSIONAL USE ONLY

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

80% SOLIDS POLYASPARTIC POLYUREA

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APPLICATION INSTRUCTIONS

Moisture Testing

Place a 4'x4' plastic sheet on concrete and tape edges. After 24 hours, if dry underneath, surface is ready. If moisture is present, perform calcium chloride and RH probe testing.

Surface Preparation

- Concrete must be structurally sound, clean, dry, and cured 28 days.
- Recommended mechanical prep: shot blasting or diamond grinding (30 grit or coarser) for CSP-2 to CSP-3.
- Vacuum thoroughly.
- For existing coatings outside re-coat window: sand with 60–120 grit until dulled.
- Rinse and dry completely.
- Optional acetone wipe (extremely flammable—follow all safety precautions).

Temperature Requirements

Substrate, air, and material must be 50°F–80°F. Higher temps/humidity speed cure; lower temps slow cure.

Tinting

- Tint with CR-471 Polyaspartic tint packs.
- Use 9–16 oz per gallon for solid opaque finish.
- Add color to Part A and mix 2–3 minutes before blending A+B.
- Multiple coats may be needed for opacity.

Mixing

- Mix Part A and Part B separately before combining.
- Blend 1 part A to 1 part B for 2–3 minutes.
- Avoid vortexing (introduces air/moisture).
- Do not thin.

Coverage Rates

- First Coat (direct to concrete): 200–300 ft²/gal
- Second Coat (over existing coating): 250–350 ft²/gal
- Over media broadcast systems: 175–225 ft²/gal

Application — Smooth Surfaces

- Apply using brush or 3/8" shedless roller (18" recommended).
- Work in 4'x4' sections, roll corner-to-corner, then back-roll.
- Maintain wet edge.
- Do not puddle.
- Remove excess in joints with brush.
- Airless or HVLP sprayer may be used.

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Application — Chip/Flake Systems

- Pour mixed material directly over flake.
- Spread with flat flexible squeegee.
- Back-roll with 3/8" shed-free phenolic core roller.
- Apply at 175–225 ft²/gal.
- Maintain wet edge; do not puddle.

Re-Coating

- Re-coat within 2–18 hour window when possible.
- High temps/humidity shorten re-coat window.
- If beyond 24 hours:
 - Sand with 60–120 grit
 - For textured broadcast systems: use Malish Mal-Grit
 - Rinse, dry, optional acetone wipe

Important Notes

- Applying outside parameters may cause failure.
- Test in inconspicuous area.
- Too thin = poor film formation.
- Too thick = bubbles/hazing.
- DO NOT USE ON BRICK.

COF Warning

ADA requires coefficient of friction:

- .6 on level surfaces
- .8 on ramps

Slip-resistant aggregate recommended for wet/oily/greasy conditions.

PRECAUTIONS AND LIMITATIONS

- Product will not freeze, but must warm to 50°F before use.
- Block HVAC ducts to prevent fume distribution.
- Use proper ventilation during and after application.
- Do not apply over carpet, tile, or floor adhesives.
- Best performance with 1–2 medium-light coats.
- Slippery when wet — add anti-slip additive if needed.
- New concrete must cure 28 days.
- Do not thin.
- May darken concrete — test first.
- Solvent vapors may travel and ignite — avoid all ignition sources.

Clean-Up

Use xylene. Dispose according to regulations.

Product Removal

Use commercial paint stripper or mechanical grinding/sandblasting.

Shelf Life

Up to 1 year unopened at room temperature.

Packaging

2-gallon and 10-gallon kits.

Warranty

Manufacturer warrants product quality for 90 days after shipment. Liability limited to purchase price. No warranty on product life, merchantability, or fitness. No consequential damages.