



POLY ARMOUR 90

High Solids, Low Odor Polyspartic Coating

PRODUCT DESCRIPTION

Deco-Crete (DC) Poly Armour (PA) 90 is an unique low odor polyaspartic coating with low viscosity, long-pot life, extended working time, & a fast return to service. This complete system is ideal for spaces that require low stress broadcast flooring, high-gloss clear topcoats, & fast turnaround times. PA 90's superior penetration & bonding strength provides years of resistance to abrasions, chemicals, salt damage, & hot tire pickup. It's self-priming & it may be applied directly to prepared concrete substrates. The extended working time makes One-Day garage floors easier than ever.

TECHNICAL INFO

- + Solids Content _____ 90%
- + Dry Time: Tack Free _____ 2-4 hrs.
- + Dry Time: Heavy Traffic _____ 24-36 hrs.
- + Recoat Time Window _____ 2-18 hrs.
- + Application Temp. _____ 40°F-80°F
- + VOC Content _____ <5 gm. per L.
- + Appearance _____ Clear & High Gloss
- + Pot Life _____ 30-45 min.
- + Working Time _____ 15-25 min.

RECOMMENDED APPLICATIONS

- + Broadcast Flooring
- + Clear Topcoats
- + Solid Color Floors
- + Garage Floors
- + Commercial Kitchens
- + Locker Room Floors



QUICK FACTS

- + Low Odor
- + Easy 1:1 Mix Ratio
- + Extended Working Time & Quick Return to Service
- + UV Stable
- + Self Priming
- + Resistant to Chemicals, Stains, Abrasions & Hot Tire Pickup
- + Ready to Recoat in 2-4 hrs.



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INSTRUCTIONS FOR USE

COVERAGE RATES

Prepped Concrete _____ Approx. 200 sq. ft. per Gal.

Over Media _____ Approx. 125–175 sq. ft. per Gal.

Topcoat on Smooth Coatings _____ Approx. 250–300 sq. ft. per Gal.

PREPARATION

All concrete substrates must be fully cured & have a moisture content less than 5%. Concrete slab must be clean, dry, in sound structural condition, & have a Relative Humidity (RH) less than 75%. Concrete substrates must be mechanically profiled to a CSP-2 to ensure all surface paste is removed before coating. It is recommended to use diamond grinding or shot blasting equipment to profile substrate. Wet Grinding is not recommended. **DO NOT USE ACID ETCHING TO ACHIEVE PROFILE.** For best results, use *Deco-Crete Quik Fix* to fill all saw cuts & repair cracks prior to PA 90 application.

MIXING

If mixing less than a full kit, agitate Part A & Part B separately. Proper mixing is crucial to the application success. Precisely measure & combine equal parts of A & B in a clean mixing container. Stir contents approximately 90 seconds using a low-speed drill & mixing paddle. Avoid over mixing or creating a large vortex which could introduce moisture/air into the mixture. No induction time is required prior to use, nor after mixing. If mixing in anti-skid aggregate, only do so after Parts A & B have been thoroughly mixed.

POT LIFE & WORKING TIME

Expected workable pot life after mixing Part A & B is approximately 30–45 minutes. Average working time of PA 90 on the floor is 15–25 minutes. Please note that higher temperatures & humidity will shorten pot life & working time as lower temperatures & humidity will extend them.

APPLICATION

It is recommended for all installers to wear spike shoes while on the floor being coated. Pour a ribbon of PA 90 directly on substrate. Spread using a 5–7 mil. notched squeegee such as the SpeedSqueegee® system from Midwest Rake. **DO NOT EXCEED 8 MIL. OF BUILD FOR ANY PA 90 APPLICATIONS.** Immediately back roll with a 3/8"–1/2" nap, chemical & shed resistant roller like the Micro Plush from Wooster Brush. Wearing spike shoes, back roll wall to wall finishing all passes in the same direction. It is important to maintain a wet edge at all times during application. **DO NOT ALLOW TIME TO PASS BETWEEN BATCHES.** Allow PA 90 to dry for 2–4 hrs. before moving on unless the application is for Broadcast Flooring. If application is for broadcasting immediately move to Broadcast Coat instructions.



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INSTRUCTIONS FOR USE

BROADCAST FLOORING

Broadcast Coat: Immediately following application, begin broadcasting media wearing spike shoes. It's important to work quickly & efficiently during this step. If the coating starts to skin over, the chips will not settle into the coating or stick the way they should. Waiting too long to cast the media will create highly visible defects in the end product. To create the most consistent look, make sure to cast the proper amount of chips/quartz. Use caution when walking back through media in spike shoes as not to disturb the chips or quartz by twisting or dragging your feet. Allow 2–4 hrs. before scraping/clean-up.

Chip Scraping/Clean-Up: Lightly brush off a small area of chips with your hand. Now push your thumb down on the floor & twist it back & forth. If the chips are twisting under your thumb, then you need to wait longer. If the chips seem to be solid & are not moving around it's time to move onto scraping. Using a flexible blade smoother or floor scraper, thoroughly scrape the floor in 3 directions — left to right, front to back, & diagonally. If desired, as you scrape & clean up the chips, place excess back in the box for use next time. Make sure to take some time with this step failing to scrape enough chips off the floor will use up more topcoat than expected & will result in a rough surface. After everything is scraped down properly, vacuum the floor to clean up any left-over chips.

Quartz Clean-Up: Lightly brush off a small area of quartz with your hand & check if coating is tack-free. Using a soft bristle broom sweep up as much excess quartz as possible. After all loose quartz has been swept, vacuum the floor to clean up any left-over media. If additional broadcast coats are desired repeat entire application process with Clear PA 90.

Topcoat: Dump a ribbon of clear PA 90 directly on floor & spread it using a flat flexible speed squeegee or magic trowel at the rate of 150–175 sq. ft. per Gal. Immediately back roll with a 3/8"–1/2" nap, chemical & shed resistant roller like the Micro Plush from Wooster Brush. It is important to maintain a wet edge at all times during application. **DO NOT ALLOW TIME TO PASS BETWEEN BATCHES.** If a second topcoat is desired repeat topcoat application steps once first coat is completely tack-free.

Quartz broadcasted floors generally require a second topcoat. Allow 24 hrs. after final topcoat before returning floor to full use.

SOLID COLOR FLOORS

Refer to PA 90 Short Filled Tech Sheet for mixing instructions. Repeat application instructions until desired finish is achieved. Clear Topcoat may be applied if desired.

CLEAR TOPCOAT

Repeat application instructions until desired finish is achieved.



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PRO TIPS

- + Avoid applying PA 90 in direct sunlight. For example, if the sun is shining directly into garage, lower the garage door to approximately 12" above the floor to block sunlight.
- + The Dip & Roll method is never recommended for any Poly Armour applications.
- + It is recommended to use large tools like 18" rollers & 24" squeegees.
- + PA 90 has an extended working time for a Polyaspartic but compared to epoxy, it's still a fast-moving coating. Being unorganized or short-handed leads to major issues. Ensuring you have enough help on a job & that you're organized is crucial.
- + Before mixing, have enough chips/quartz in buckets & ready to go to broadcast at least half of the floor. You'll only have 15-25 minutes for broadcasting so waiting to fill buckets until it's time to cast can cause you to get behind based on PA 90 working time.
- + You need to start chipping once back roller is about 6–8 ft. off the starting wall. Once you've broadcasted 10–12 ft. it's important to look back over what's already been cast. Any spots that appear shinier than the rest will need more media. With PA 90 it's crucial to address these spots right away. When addressing these spots make sure to keep casting until chips/quartz start to bounce back at you, this is referred to as casting until rejection.
- + When top coating chips/quartz, remember the floor will have highs & lows due to the media. It's important to use the texture of the floor as a gauge for thickness. Use the flat squeegee to pull the coating as tight as possible over the media. This will allow the coating to be pulled off the high areas & settle into the lows. After back rolling, the topcoat will be redistributed evenly at the proper thickness.

FOR PROFESSIONAL USE ONLY. Poly Armour, Liquid Metals and any other 2-part product sold by Deco-Crete Supply is intended for certified professional contractor use only. The installer must have completed our training for the specific system being used. Any person or business that chooses to forgo certified contractor installation and attempts to install these products on a "do it yourself" basis is fully responsible for any mishaps and/or failure of the system during and after the installation process.

STORAGE

- + Shelf life: 1 yr. from manufacturer date in it's original, unopened container stored at room temp. 2 Gal. & 10 Gal.



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