



POLYCLEAR 250

ACRYLIC POLYURETHANE

Two-Component · Solvent-Based Acrylic Urethane · UV Resistant

FOR PROFESSIONAL USE ONLY

Polyclear 250 is a clear, UV resistant, two component, low viscosity, solvent based acrylic urethane. Polyclear 250 provides a tough, scratch resistant, medium to high gloss protective coating for interior and exterior concrete surfaces.

KEY FEATURES & BENEFITS

- Excellent long-term wear for longer life without re-coating
- Enhanced chemical and stain resistance as a durable topcoat
- UV stability for areas saturated by sun throughout the day
- Can be tinted for solid color applications

RECOMMENDED APPLICATIONS

- Auto service centers
- Warehouses
- Laboratories
- Aircraft hangars
- Cafeterias
- Garages

TYPICAL PROPERTIES & TECHNICAL INFORMATION

PROPERTY	VALUE
Solids / Active Content (by weight)	51% ± 1%
Mix Ratio (by volume)	4 Parts A : 1 Part B
Pot Life	45 minutes
Dry Time – Tack Free	2 – 3 hours
Dry Time – Foot Traffic	24 hours
Dry Time – Heavy Traffic	5 – 7 days
Re-Coat Time Window	4 – 20 hours
Application Temperature	50°F – 80°F
VOC Content	Less than 400 g/L
Appearance – Dry	Clear, Medium / High Gloss

Values based on lab conditions of 70–72°F at 50% RH. Results may vary outside these conditions. Always test prior to use.

SPECIFICATIONS / COMPLIANCES

- Dried coating is USDA accepted

ALWAYS REFER TO THE SDS AND READ THE FULL TECHNICAL DATA SHEET AND WARRANTY INFORMATION PRIOR TO USE.



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Application Instructions

MOISTURE TESTING

Concrete floors, especially those not poured over a proper vapor barrier (plastic), are subject to possible moisture vapor transmission which may result in bubbling and/or failure of high-performance coatings. Basic moisture testing can be performed by placing a 4' x 4' sheet of plastic on the concrete surface and securely taping it down on all edges. If after 24 hours the concrete is still dry below the plastic, the surface should be ready to coat. If moisture is present, the coating applicator should perform calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions are present before applying any coatings.

SURFACE PREPARATION

The concrete surface must be deemed mechanically and structurally sound, thoroughly clean of debris and completely dry. Concrete must be fully cured for a minimum of 28 days. It is recommended to prepare the concrete surface by mechanical means such as shot blasting or diamond grinding with 30 grit or coarser diamonds to achieve a CSP-2 to CSP-3 profile. Vacuum the concrete surface several times until dust is thoroughly removed. If applying over an existing, fully bonded coating that is outside its recommended recoat window, the surface should be sanded thoroughly with a 60-120 grit sanding screen until the surface is completely dulled with scratches. Vacuum dust thoroughly, rinse with clean water and remove excess water with a wet/dry vacuum or floor scrubber. Allow surface to dry completely prior to application of coating. Where applicable and with adequate ventilation, wipe the surface with acetone and a microfiber dust mop.

CAUTION: Acetone is extremely flammable. Follow all safety precautions. Make sure no pilot lights, open flames, sources of static electricity, sparks, or extreme heat sources are present. Use recommended personal protection for acetone.

If mechanical means of preparation are not suitable, it is recommended to prepare the surface with 4 parts water to 1 part muriatic acid. This preparation method is only suitable for completely unsealed, bare concrete surfaces. Apply acid solution evenly on the surface using brushes, mops, brooms or an approved floor scrubber and keep wet on the surface for 10-15 minutes. Remove excess acid solution with a wet/dry vacuum or floor scrubber. Rinse surface thoroughly with clean water and on the final rinse use Who Do Magic's Balance to neutralize the surface pH. Inspect the floor to ensure the surface has reached an even and adequate surface profile. Repeat the acid etch and neutralizing steps as necessary to achieve correct profile. Allow the floor to dry thoroughly for 24-72 hours prior to applying this product. ALWAYS use proper personal protective equipment when working with muriatic acid.

TEMPERATURE & PERSONAL PROTECTION

Substrate, air and material temperatures must be no less than 50°F and not exceed 80°F. If applied outside these limits the coating may not achieve adequate film formation and may have excessive air entrapment, bubbles, blushing or hazing. Higher substrate, air and material temperatures as well as excessive humidity may speed up the cure rate. Cooler temperatures and lower humidity may slow the cure rate.

FOR PERSONAL PROTECTION: Use gloves, goggles, respirator and other necessary PPE. Refer to SDS prior to use.

TINTING

Tint at a ratio of 9-16 oz. per gallon is suggested for a solid, opaque finish. Always add color to Part A and drill mix for 2-3 minutes prior to blending A and B. Color may settle during long-term storage and be difficult to redistribute. Always test for color acceptance prior to full application. Multiple coats may be necessary for total opacity. Refer to color chart for color selection.

MIXING

If mixing less than a full kit, mix Part A and Part B separately with a stir stick, low speed mixer or vigorously shake containers prior to measuring out the smaller kit to ensure uniform distribution of all ingredients. In a clean mixing container, blend 4 Parts A and 1 Part B using a drill mixer for 2-3 minutes. Avoid creating a vortex in the material which could introduce air and/or moisture to the mixture. Do not mix more than can be applied within the usable pot life. DO NOT THIN!

COVERAGE RATE

COAT	COVERAGE
First Coat – Direct to Concrete	250 – 300 ft ² per gallon
Second Coat – Over Existing Coating	250 – 300 ft ² per gallon

Coverage rates may vary depending upon surface porosity, texture, application method and prior coating application. Excessive buildup should be avoided.



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Application, Limitations & Warranty

APPLICATION

Using a brush and/or $\frac{3}{8}$ " nap shed-less roller, dip and roll the mixed material from a roller pan. 18" rollers are recommended to speed application and reduce roller marks. Start by placing the wet roller at one corner of an approximate 4' x 4' square and roll the material at an angle to the opposite corner applying no pressure to the roller. Spread the material across only that square and immediately back-roll to even out material and roller lines. Adjust the size of your square as needed based on the amount of material being applied. After finishing the square, move on to the next square using the same technique. Keep a wet edge to prevent roller marks. Work in sections, usually using control joints as dividers. Apply the mixed material within the usable pot life. If the material becomes thick while applying and sticking to the roller, stop applying and discard the mixed material – it has reached the end of usable pot life. Do not allow to puddle. Use a brush to remove excess coating in joints. An airless or HVLP sprayer may also be used.

RECOATING

If possible, recoat within the suggested 4–20 hour recoat window. Apply additional coats in the same manner as the first coat. Higher substrate, air and material temperatures as well as excessive humidity may greatly reduce the acceptable recoat window. When working in higher temperatures, always recoat as early in the window as possible to avoid intercoat failure. If recoating outside the suggested window or beyond 24 hours, sand using a 60–120 grit sanding screen to ensure adequate adhesion between coats. Vacuum dust thoroughly, rinse with clean water and remove excess water with a wet/dry vacuum or floor scrubber. Allow surface to dry completely prior to application. Where applicable and with adequate ventilation, wipe the surface with acetone and a microfiber dust mop.

PLEASE NOTE: Applying material outside the suggested parameters may result in product failure. Always test in a small, inconspicuous area on the same concrete substrate prior to full application. Coverage rates vary by porosity, density and texture. Applying too thin may cause inadequate film formation or limited performance. Applying too thick may result in bubbling or hazing. DO NOT USE ON BRICK.

COF / SLIP-RESISTANCE WARNING

OSHA and the Americans with Disabilities Act (ADA) have set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Who Do Magic LLC recommends the use of slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end user's responsibility to provide a flooring system that meets current safety standards. Who Do Magic LLC nor its sales agents will be responsible for injury incurred in a slip and fall accident.

PRECAUTIONS AND LIMITATIONS

- This product will not freeze during storage; however, allow temperatures to rise to 50°F prior to application.
- All HVAC ventilation ducts should be blocked prior to application so solvent fumes are not distributed.
- If using indoors, use proper ventilation while applying and for hours afterward to ensure fumes are removed.
- It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- This product performs best when applied as one or two medium-light coats, not one heavy coat.
- When cured, this product may be slippery when wet. An anti-slip additive, such as Surf-Grip, can be added to reduce slip hazards.
- All new concrete must be cured for at least 28 days prior to application.
- It is not recommended to thin the product. Improper thinning may cause delamination and other performance issues.
- This product may darken the surface of many new and existing concrete slabs. Test prior to use.
- Physical properties listed on this technical data sheet are typical values, not specifications.
- Solvent vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources distant from the material handling point.

CLEAN-UP	SHELF LIFE	PRODUCT REMOVAL	PACKAGING
Use xylene. Dispose of containers in accordance with local, state, and federal regulations.	Up to one year from manufacture date in its original, unopened container stored at room temperature.	Dried, cured coating may be removed with a commercial paint stripper such as Magic Stripper, or by diamond grinding, sandblasting, or similar mechanical action.	Available in 1.25-gallon and 5-gallon kits.

WARRANTY

Who Do Magic LLC warrants our products to be of good quality, free of defects and will conform with our published specifications in force on the date of acceptance of the order. As the exclusive remedy for breach of this warranty, we will replace defective materials. Ninety days after Who Do Magic LLC has shipped the products, all our warranty and other duties with respect to the quality of the materials delivered shall conclusively be presumed to have been satisfied, all liability therefore terminates, and no action for breach of any said duties may thereafter be commenced. No warranty is expressed or implied as to the length of life of this product, or merchantability or fitness. Liability, if any, is limited to the purchase price of the material. Under no circumstances will Who Do Magic LLC be liable for consequential damage in excess of the purchase price of the products.

Always read all technical information, label, and SDS prior to use. Information is available online or by calling customer service.