



NI-72 Polyaspartic

POLYASPARTIC FLOOR COATINGS

TECHNICAL PRODUCT BULLETIN

PRODUCT DESCRIPTION

NI-72 Polyaspartic primer sealer/finish coatings, pigmented or clear, being self-priming, both decorative and protective, are a new generation of fast-curing, two-component, polyaspartic products for interior or exterior use over properly prepared concrete, metal, mineral substrates, and certain plastics. For application to wood surfaces, contact manufacturer. They have excellent penetration and bond strength to properly prepared surfaces and are UV resistant with flexible properties. They have good splash and chemical-spill-resistant properties involving commercial and household cleaners, pool water treatment products, and hot tires.

NI-72 Polyaspartic coatings are ideal for garage floors, patios, walkways, driveways, pool decks, concrete countertops, automotive sales and service areas, restaurant kitchen and dining areas, courtyards, atriums, malls, retail stores, rest rooms, warehousing, animal housing facilities, aircraft hangers, etc.

Product Features and Benefits

- Self priming, excellent penetrating and bond strength.
- Excellent abrasion, impact, and wear resistance.
- Excellent hot tire pickup resistance.
- UV-resistant; optical clarity of clear sealer/finish.
- Low-temperature cure (-30F/-34C); longer cure time needed in low temperatures. (Note: Reference is related to surface temperature, not ambient temperature.)
- Recoat time, 1 hour; walk-on time, 1 to 2 hours.
- Can add micro media agents to improve slip reduction.
- VOC compliant or HAPS free.
- Meets FDA/CFSAN, U.S. Food Code, Physical Facilities criteria as outlined in 6.101.11 Surface Characteristics USDA acceptable.
- Excellent stain resistance.
- Skydrol resistance.
- Random/incidental heat contract: tolerant to 300F.
- Low solvent odor.

Product Uses

- Three-coat garage floor system consisting of self-priming color primer/sealer followed by clear "bed" coat for accepting and wetting decorative flake chips (or other decorative media), followed by clear sealer/finish coat.
- Final clear sealer/finish over decorative concrete surfaces such as acid, color or dye stained, semi-polished concrete, polymer-modified cementitious overlayers, or seamless multi-build epoxy/color quartz flooring.
- High foot traffic, along with certain types of vehicle and material-handling equipment.
- UV-resistant sealer/finish coat over safety surfacing systems or outdoor running tracks.

****DO NOT APPLY OVER PREVIOUS COATS OF WATER BORNE OR SOLVENT BASED ACRYLIC COATINGS OR STAINS.****

PRODUCT DATA

VOC Content:
1.8 lb/gal (216 g/L) to 0 (zero) VOC content

Type of Material:
Polyaspartic

Volume Solids:
72%

Estimated Coverage:
1155 SQ FT. PER GALLON/MIL DFT.

Recommended Film Thickness:
2 to 6 mils per coat

Method of Application:
Roller application is recommended. The roller must have an industrial-grade, phenolic-resin core with a synthetic-nap or lambs-wool cover, 1/8 to 3/8 inch nap, 18 inch width.

Recoat time:
Minimum 1 hour
Maximum 48 hours (contact manufacturer)

Thinner and Clean Up Solvent:
Use Xylol or MEK. DO NOT USE ALCOHOLS.

Shelf Life:
12 months unopened. Store at 40F to 100F in a covered area (out of the sun)

Pot Life:
25 to 30 minutes

Dry Time:
1 to 3 hours minimum

Flash Point:
Base and Catalyst above 100°F

Color and Gloss:
Clear: High or medium gloss and matte finishes
Pigmented: Standard factory or custom colors

Mixing Ratio:
1.0 part A; 1.0 part B

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SURFACE PREPARATION

Before application the receiving surface must be deemed structurally and mechanically sound, clean, and dry. Proper surface preparation is required for decorative-concrete, thin-film "Class -A-type" flooring systems or sealer/finish coatings. This is best achieved with mechanical grinding machines using diamond heads achieving a final 50 to 120-grit pro-file. Recommended surface profile is SP-2, Reference ICRI Technical Guideline No. 03732.

All receiving surfaces to be coated must be free of previous coatings, sealers, curing compounds, water repellents, laitance, efflorescence, oils, fats, grease, waxes, residue from cleaning compounds, non-visible soluble salts, and any other impediments to adhesion. The resulting surface must be a neutral pH 7.

Always check for potential bond breakers. One method is simply wiping the surface of the prepared concrete with a dark cloth. If white powder is pre-sent it should be removed. Another method entails pouring a slight amount of water on the concrete in random areas. If the water is absorbed into the concrete and leave it wet, the substrate is porous and thus acceptable. If water beads up, this indicates a bond breaker is still present and further surface preparation steps are necessary, such as additional mechanical grinding.

The rising moisture vapor emission rate must not exceed 3 pounds per 1,000 sq ft. (3 lb/1,000 ft) over a 24 -hour period as measured by the calcium chloride test method, ASTM F-1869. The relative humidity in the slab must not exceed 80 percent.

Any repairs that are not associated with normal cleaning and surface preparation work (i.e., cracks, chips, pitted/severe spalls deemed non-structurally sound or have levelness issues) must be properly addressed and remedied prior to application of the coatings due to the fact that coatings follow the contours of the existing substrate. All spalls and cracks should be repaired in accordance with ICRI standards.

This material is for industrial use only . See Material Safety Data Sheets for handling, storage, disposal and use. **NON-WARRANTY** : The information herein is based upon the best information available at time of printing and data provided are intended for those having skill and ability to use products as recommended . Northern Industries assumes no warranties , either implied or expressed, as to the purchase or application of these products, with the sole exception that if the Seller delivers off standard materials, the Seller will, at its option, either replace the material or refund the full purchase price. Nothing contained herein shall be construed as a recommendation to use this product in conflict with any existing patent.

MIXING

Mix part A and part B in equal parts (1:1) using a clean, dry working vessel. Stir gently to avoid over-mixing or creating a vortex that would introduce moisture. Do not mix below the dew point, which will shorten the pot life. No induction time is required prior to use. If micro-media agents are to be incorporated, they are to be added after thoroughly mixing component A and B.

POTLIFE

An approximate 25 to 30 minutes workable pot life exists at a temperature range of 70F to 80F (and 50% relative humidity). At higher temperatures and humidity the pot life can be shorter.

APPLICATION INSTRUCTIONS

Roller application is recommended. The roller must have an industrial grade phenolic resin core with a synthetic nap or lambs-wool cover. 1/8" to 3/8" nap.

CLEANUP

Use Xylene or MEK. Do Not use Alcohols.

STORAGE AND SHELF LIFE

The product must be stored in tightly sealed containers in a climate-controlled, dry location at normal room temperature. Containers which have been opened for use must be re-sealed immediately in a new container, preferably filled to the top (the more airspace in the container the greater the potential for reaction with moist air, decreasing the shelf life of the product).

SAFETY

Polyaspartic aliphatic polyurea products contain chemical ingredients that are considered hazardous. Read the container label warning and Material Safety Data Sheet prior to use.



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