



Specialty Flooring Products

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TECHNICAL DATA: POLYASPARTIC P900

POLYASPARTIC P900

NC- P900 Polyaspartic is a two component 95% solids polyaspartic coating. P900 can be used as the base coat and as the topcoat with Chip/Flake decorative broadcasts or Quartz Aggregate broadcast floor systems. P900 has excellent chemical resistance, hardness, abrasion resistance, UV stability and has an excellent clarity P900 can be tinted with NC P900 color packs. P-900 can be used over most all Nikka Coatings as a final topcoat

RECOMMENDED USES

Recommended for areas where a medium build broadcasted floor is desired and installation downtime is very limited. This material can also be applied over a broadcasted or troweled system as a thin to medium build coating.

GENERAL PRODUCT DATA

SOLIDS BY WEIGHT:

95% (+/- 1%)

SOLIDS BY VOLUME:

94% (+/-3%)

VOLATILE ORGANIC CONTENT:

Less than 50grams per liter

RECOMMENDED FILM THICKNESS / COVERAGE PER GALLON:

10-15 mils wet / 100-160 square feet per gallon

HARDNESS:

Shore D= 75

PACKAGING INFORMATION

2.5 gallon kit approx (larger kits available)

AVAILABLE COLORS:

Clear – color packs available in all standard color

ABRASION RESISTANCE:

Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 20 mg loss

FINISH CHARACTERISTICS:

Gloss (>70 at 60 degrees)

SHELF LIFE:

6 months in unopened containers

ADHERSION:

340psi @elcometer (concrete failure, no delamination applied to shot blasted concrete)

COMPRESSIVE STRENGTH:

12,000 psi @ ASTM D695

ULTIMATE ELONGATION:

2.4%

TENSILE STRENGTH:

3,750 psi @ ASTM D638

MIX RATIO:

One to one by volume

DOT CLASSIFICATIONS:

Part A not regulated

Part B not regulated

CURE SCHEDULE (70%) (70% relative humidity):

Pot life – to gel 150 (gram mass)..... greater than 2 hour
(actual usable working time is approximately 15-20 minutes)

Tack free (dry to touch)..... 3-4 hours

Recoat or topcoat..... 3-5 hours

Light foot traffic..... 3-5 hours

Full cure (heavy traffic)..... 24-48 hours

APPLICATION TEMPERATURE:

50-90 degrees F with relative humidity below 85%

CHEMICAL RESISTANCE:

REAGENT	RATING
xylene	3
1,1,1 trichloroethane	2
MEK	1
methanol	2
ethyl alcohol	2
skydrol	3
50% sodium hydroxide	5
10% sulfuric acid	3
10% HCl (aq)	3
5% acetic acid	3

Rating key: 1 - not recommended, 2 - 2 hour term splash spill, 3 - 8 hour term splash spill, 4 - 72 hour immersion, 5 - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

PRIMER:

Recommend a suitable primer- However Primer is not required

TOPCOAT:

None recommended

LIMITATIONS:

*Color stability may be affected by environmental conditions like high humidity/chemical exposure. Exposure to some types of lighting such as sodium vapor lights may cause discolorations.

*Test Data based on neat resin.

*Clarity of color may vary from batch to batch

*Substrate temperature must be 5°F above dew point.

*Too thick of an application may result in surface imperfections, bubble generation or product failure.

*Always apply a test patch to determine product suitability and adhesion performance for your proposed application method and procedures.

*All new concrete must be cured for at least 30 days prior to application.

*Do not expose this product to water until fully cured.

*See reverse side for application instructions.

*Physical properties are typical values and not specifications.

*See reverse side for limitations of our liability and warranty.

*Relative humidity can affect dry time and gel time – See page 2

*See reverse side for limitations of our liability and warranty.

POLYASPARTIC P900

MIXING AND APPLICATION INSTRUCTIONS

PRODUCT STORAGE: Store product at normal room temperature before using. Continuous storage should be between 60 and 90 degrees F. Low temperature or temperature fluctuations may cause crystallization

SURFACE PREPARATION: : The most suitable surface preparation would be a brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding. For applications directly over concrete, Testing should be performed to confirm a moisture vapor emission rate below 3 lb/24hr/1000 ft² per ASTM F1869

PRODUCT MIXING: This product has a mix ratio of 12.95# part A to 9.3# part B. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the primed substrate..

PRIMING: A suitable primer should be used before applying this product. However, whether a primer is used or not, it is advisable to apply a test patch prior to using this product to determine if the adhesion characteristics are suitable for the service environment.

PRODUCT APPLICATION: The mixed material can be applied by brush, serrated squeegee, or roller. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. The product can be used as a topcoat to seal in the broadcasted paint chip or broadcasted quartz base for the final coat. Use an air release roller tool when needed. Improper mixing may result in product failure. It should be pointed out that relative humidity can have a dramatic influence on the curing characteristics. The product will dry quicker and have less working time when the relative humidity is higher while a lower relative humidity will lengthen the dry time and working time. Mix only an amount that can be applied in the time allotted. Be sure that any tie-ins to previously applied material is also within the recommended time allotted for use as the previously applied material may begin to tack off in a short period of time.

RECOAT OR TOPCOATING: This material can be applied in multiple layers to increase build or can also be used as the final topcoat to seal in the aggregate filled base system. If you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence.

CLEANUP: Use xylol

FLOOR CLEANING: Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

RESTRICTIONS: Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.

Warranty

Since no control is exercised over product use, The Nikka Corporation warrants that its products are manufactured free from defect and are consistent and within manufacturing tolerances on our data sheets. No other oral or written representation or statement of any kind, expressed or implied, now or hereafter made is authorized or warranted by The Nikka Corporation. This product is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular use. The Nikka Corporation shall have no liability for incidental or consequential damage, direct or indirect. Our liability is limited to price of or replacement of our product at our option. By accepting delivery of our product means that you have accepted the terms of The Nikka Corporation Warranty.

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