



Application Instructions

POLYASPARTIC – VINYL CHIP, FULL BROADCAST

PDS-VCFB-51018

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions and application procedure. These instructions should be followed closely to obtain the maximum service from the product.

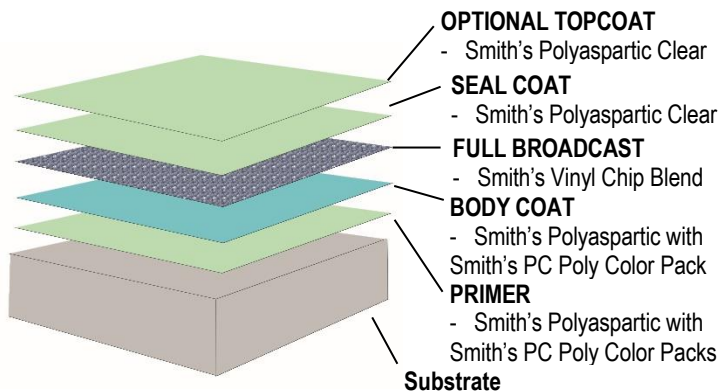
DESCRIPTION:

Smith's Polyaspartic Vinyl Chip Full Broadcast System is a fast-return-to-service, single broadcast decorative vinyl chip seamless floor coating system ideal for retail, commercial, institutional, medical & veterinary, kennels, as well as residential applications, both interior and exterior. This coating system offers the ability of a one day coating application with full traffic the following day.

HIGHLIGHTS:

- Overnight return-to-service
- UV Stable – Interior or Exterior use
- Resistant to Hot Tire Pick-up
- Good Stain and Chemical Resistance
- Decorative
- Economical
- Durable and Easy to Clean
- Low VOC's – Available in all regions

Vinyl Chip Full Broadcast System – Roughly 60 mils



NECESSARY TOOLS and EQUIPMENT:

- Plastic Sheeting or Ram Board to cover floor for mix station
- Jiffy mixing paddle
- Low speed 1/2" drill (Variable Speed 650 rpm or less)
- 5 gallon Plastic Mixing Buckets
- 18" wide Premium, Non-Shed 3/8" Nap Paint Roller Covers
- 18" wide Premium, Non-Shed 1/2" Nap Paint Roller Covers
- 18" wide, non-metallic Paint Roller Frames
- Multiple Extension Poles
- [Flat Squeegee](#) (Seal Coat placement)
- Self-contained respiratory mask
- [V-Notched 8-12 mil Squeegee](#) (Body Coat placement)
- Spiked shoes or Soccer Cleats
- Cleaning Solvent (Acetone, MEK, Xylene)

NOTE: The mix station and all application equipment should be ready for immediate use prior to mixing any product. Higher temperatures and humidity will shorten pot life.

AREA PREPARATION: Be sure to mask or cover all areas that are not intended to be coated; including, but not limited to; door frames, doors, walls and windows.

SURFACE PREPARATION: Surface preparation of a polyaspartic floor system is the **MOST IMPORTANT** phase of the application. Proper floor preparation results in the product's longevity, minimizes potential failures and creates the best environment for an aesthetically pleasing installation. In short, the more detail and time allotted to this phase of the project will dramatically affect the appearance as well as the durability and longevity of the finished floor.

- 1) Allow new concrete to cure for at least 28 days. A hazy appearance, blistering or loss of adhesion may occur when applied to damp or incompletely cured concrete. Moisture Vapor Testing is always recommended when coating directly over concrete.
**See "Moisture /Alkalinity" section on page 3 for more details*
- 2) Remove paint, adhesives and loose particulates from the intended application surface
- 3) Residential/Light Traffic Applications only (e.g. basements, garage floors, patio's, etc.)
 - [Smith's Green Clean Pro](#) may be used to prepare bare concrete instead of mechanical preparation. Follow procedure documented in Smith's Green Clean Pro application instructions and allow concrete to fully dry before application of Smith's Polyaspartic
- 4) Moderate to Heavy Traffic Applications – Mechanically prepare to a Concrete Surface Profile - CSP 2 to CSP 5 via mechanical grinding with a 30 (or less) metal bonded diamonds or shotblasting. If water is introduced to the intended application area, allow substrate to fully dry
- 5) Key in all termination points by saw cutting 1/8th inch wide by 1/8th inch deep termination lines at doorways, drain, etc.
- 6) For exterior applications – Remove 1-2" wide and deep of grass, mulch, landscaping rocks, etc. against the concrete to be treated to expose the vertical transition and clean
- 7) For a seamless appearance, all joints must be filled with an appropriate semi-rigid joint filler and finished flush to the concrete surface
- 8) Repair all chips, gouges, divots, and other floor irregularities then grind smooth.





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MIXING INSTRUCTIONS: Mix only that amount of product that can be used in 30 minutes (Smith's Polyaspartic 1000 Series) or 45 minutes (Smith's Polyaspartic 2000 Series) at 72°F and 40% RH. Higher temperatures and/or high humidity reduce pot life while lower temperatures will extend the time necessary between coats.

Mixing Ratio: Equal parts by volume (i.e. 1 Part A to 1 Part B)

Measure the amounts carefully and mix counter-clockwise for one full minute using a low speed drill with a paint mixing paddle ensuring both the bottom and sides of the mixing container have been thoroughly blended.

DO NOT MIX AT HIGH SPEEDS to avoid air and moisture entrapment.

NOTE: Mechanical agitation is recommended

APPLICATION METHOD: Smith's Polyaspartic 1000 and 2000 Series may be applied via brush, roller and/or squeegee.

ROLLER APPLICATION: Use a 3/8 inch non-shed chemical resistant roller cover.

BRUSH APPLICATION: Utilize traditional bristle brush application for corners and edges.

INSTALLATION: *Cure times based on 72°F – 40% RH*

1) **PRIMER** (Recommended) - Apply a thin coat of Smith's Polyaspartic Gloss 1000 or 2000 with Color Pack at a rate of 5-7 mils ≈ 175-240 sq.ft. per gallon. Allow to cure:

- 2000 Slow Cure = 3 - 4 hours
- 1000 Fast Cure = 1 ½ - 2 hours

2) **BODY COAT & BROADCAST-** Apply Smith's Polyaspartic 1000 or 2000 with PC Poly Color Pack at 8-12 mils ≈ 100-150 sq.ft. per gallon using either the dip and roll method with a 1/2" non-shed solvent resistant roller or V-Notched 8-12 mil Squeegee then back roll with 3/8" non-shed solvent resistant roller. Immediately broadcast Smith's Vinyl Chip into the fresh Polyaspartic at a rate of 0.12 to 0.2 lbs. per sq.ft. Allow to cure:

- 2000 Slow Cure = 4 - 5 hours
- 1000 Fast Cure = 2 - 3 hours

3) Scrape off any ridges of Vinyl Chips using a drywall tape knife or similar flat blade scrape

4) Vacuum the entire surface thoroughly to ensure all loose Vinyl Chip has been removed

5) **GROUT COAT** - Apply seal coat of Smith's Polyaspartic Clear 1000 or 2000 at 12-16 mils ≈ 75-100 sq.ft. per gallon via flat blade squeegee then back roll with 3/8" Non-shed solvent resistant roller.

- 2000 Slow Cure = 4 - 5 hours
- 1000 Fast Cure = 2 - 3 hours

6) **SEAL COAT** - Apply seal coat of Smith's Polyaspartic Clear 1000 or 2000 at 6-12 mils ≈ 100-200 sq.ft. per gallon via flat blade squeegee then back roll with 3/8" Non-shed solvent resistant roller. Thicker seal coat application will result in less pronounced Vinyl Chip texture. For a smooth finish, allow this layer to dry then sand with 80 grit sandpaper using a low speed orbital buffer, vacuum thoroughly then tack rag to remove any remaining dust prior to applying an optional topcoat.

* Angular traction additive, such as [Smith's Resin Sand](#), may be added to this layer if desired.

- 2000 Slow Cure = 4 - 5 hours
- 1000 Fast Cure = 2 - 3 hours

7) **OPTIONAL TOPCOAT** - Apply a body coat of Smith's Polyaspartic Gloss 1000 or 2000 with Smith's PC Poly Color Pack:

- Orange Peel-like texture, Gloss Finish - achieved with a thin, dip-and-roll topcoat application
 - 3 to 7 mils ≈ 175-600 150-300 sq.ft. per gallon
- Smooth, Gloss Finish – Requires a thicker topcoat application of greater than 8 mils
 - 8-12 mils ≈ 100-150 sq.ft. per gallon

- Low Sheen with Mild Texture Finish – For areas with moderate to heavy traffic demands, Smith's Industrial Filler may be added to Smith's Polyaspartic at a rate of 1 pint per mixed gallon of Polyaspartic and MUST be applied via dip-and-roll method in a V-Roll pattern with straight finish roll
 - 500-620 sq.ft. per mixed gallon

* Angular traction additive, such as [Smith's Resin Sand](#), may be added to this layer if desired.

Allow to cure:

Light/Foot Traffic:

- 2000 Slow Cure = 4 - 5 hours
- 1000 Fast Cure = 2 - 3 hours

Vehicle Traffic:

- 2000 Slow Cure = 24 - 36 hours
- 1000 Fast Cure = 12 - 24 hours

* Mil and sq. ft. coverage are theoretical. Substrate porosity will affect coverage rates.



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APPLICATION TEMPERATURES:

| | Material | Surface | Ambient | Humidity |
|----------------|----------|----------|----------|----------|
| Best | 60°-80°F | 65°-80°F | 65°-85°F | 10-60% |
| Minimum | 50°F | 50°F | 50°F | 0% |
| Maximum | 90°F | 90°F | 95°F | 70% |

- Do not apply when substrate has direct sun

- High humidity will decrease pot life.

- USE Smith's Polyaspartic 4000 Series for Low Temperature installations

RECOATING: Smith's Polyaspartic should be recoated as soon as a previous coat is dry to the touch. If recoating after 24 hours has elapsed, degloss existing sealer film with a black janitor pad, 80-100 grit sandpaper or sanding screen.

MAINTENANCE: The coating system must be allowed to cure for no less than one week before using any mechanical cleaning equipment on the surface and no less than 24 hours before neutral cleaner or water exposure. This includes auto-scrubbers, swing buffers, sweepers, etc. Only dust and wet mopping may occur the first week.

Dust mopping, removal of debris and regular cleaning is crucial to maintaining the aesthetics of the coating and obtaining the maximum life span of the floor coating system. Cleaning cannot occur too often and inefficient cleaning will cause the floor to wear out prematurely and possibly stain or discolor depending on what comes in contact with the floor. Spills should be removed quickly. Avoid the use of Polypropylene or abrasive bristle (Tynex®) brushes as these brushes will cause the development of scratch patterns and lessen the sheen.

To maximum your investment with proper floor care and maintenance, remove all particles that may scratch and/or dull the floor coating using the least aggressive method necessary to clean the floor.

It is good practice to develop a floor maintenance schedule to be performed at the end of each shift and a set day per week or month for heavy cleaning:

- Daily = Sweep and dust mop or water only mopping/auto-scrubbing; spot clean spills and oils
- Weekly or Monthly = Scrubbed once per week or month depending on the amount and type of soils present.

Health Department or DEA regulations may necessitate more frequent and stringent cleaning practices as will areas more prone to oils, inks, chemicals, etc. on the floor surface.

Tynex® is a registered trademark of E. I. du Pont de Nemours and Company.

DETERGENT: Always use the least aggressive detergent necessary to remove the residue. Smith's Neutral Clean, or similar, may be used for general purpose cleaning. Use Smith's Oil Clean, or similar degreaser, for more degreasing and heavy duty weekly or monthly cleaning.

CAUTION:

- Do not drag or drop heavy objects across any floor, including coatings as scratching, gouging or chipping may occur to the concrete or the coating itself. This includes the tip of the forks on a forklift, nails protruding from a pallets, etc.
- Avoid spinning tires on the surface of a coated floor. The heat created from the friction of a spinning tire will quickly soften the coating causing permanent damage to the finish.
- Should a gouge, chip or scratch occur, touch-up the damaged areas immediately to avoid chemical or water intrusion to the concrete which could create additional damage. A thin layer of clear nail polish to the damaged area will provide some minimal protection until the area can be properly repaired.
- Rubber tires are prone to plasticizer migration, especially aviation tires and high performance car tires. Plasticizer will stain coating and commercial flooring leaving an amber, yellow-like stain that can be permanent. This can be more noticeable where aircraft or vehicles are stationary for longer period of time, more so in non-climate controlled environments such as aircraft hangar with lighter colored floors. To avoid plasticizer staining, use a piece of Plexiglas® or LEXAN® panels, cut a few inches in diameter larger than the tires that will rest on the panels, between the floor and the contact point of the tire when storing rubber tired vehicles on any floor, including floor coating systems. Some tire stains can be removed is cleaned before a set-in stain occurs using a d-Limonene based degreaser and some mild agitation using an orbital, low speed floor machine.
- Material is combustible. Extinguish all flames, pilot lights and electric motors until all vapors are gone and the coating is hard. Keep away from sparks, heat and open flame. Use with adequate ventilation when mixing, applying and curing. Product emits harmful solvent and isocyanate vapors which can cause respiratory irritation. Individuals with chronic lung or breathing problems or negative reaction to isocyanates, should not use this product. The use of a self-contained respiratory equipment (TC 19C NIOSH/MESA) is recommended. Prevent all contact with skin. Use impermeable gloves and chemical resistant eye protection.

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SLIP RESISTANCE: Smith Paint Products recommends the use of angular slip-resistant aggregate in all coatings that may be exposed to wet, oily or greasy conditions as well as any condition where increased traction may be necessary. It is the contractor and end users' responsibility to determine the appropriate traction needs and footwear necessary for the conditions as well as setting performance parameters prior to beginning the application, testing to determine parameters have been met upon completion to achieve the end users documented safety standards.

Mock-ups are highly recommended as part of the evaluation process to determine the appropriate amount of slip-coefficient necessary for the environment.



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MOISTURE/ALKALINITY: The absence of an effective moisture vapor barrier may create an environment for moisture vapor transmission as well as high levels of alkalinity in concrete slabs. Blistering, delamination, flaking, etc. may occur in these environments when a non-breathable coating is applied over the surface of the concrete. Moisture testing is extremely important has part of the investigation process prior to quoting a project and should occur following the most current industry accepting testing methods, such as, a Calcium Chloride test (ASTM F-1869) and/or Relative Humidity probe (ASTM 2170). It is the contractor's responsibility to determine the moisture vapor transmission and pH of a floor. It is the contractor's responsibility to determine whether or not a substrate is sound, solid and suitable.

Never use silicate based products as a means of moisture remediation as these products may crystallize in the pores of the concrete surface and impede on the adhesion of the coating system and are highly discouraged for use under any circumstance. This includes products containing Potassium Silicate, such as Smith's Base Boost, and Sodium Silicate based products.

Smith Paint Products is not responsible for failures due to the presence of moisture vapor emissions nor high levels of alkalinity.

LIMITED LIABILITY: Liability is limited to replacement of defectively manufactured product with same type and cost of the original purchased product upon presentation of a valid, fully paid invoice at the time of a claim. No warranty shall be granted for outstanding invoices or for accounts with unpaid balances until paid in full. No damages, whether consequential, liquidated or other, shall be provided under this Limitation of Liability and Limited Warranty. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SMITH PAINT PRODUCTS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SHOULD YOU NOT AGREE WITH ANY OF THE ABOVE TERMS, DO NOT PURCHASE THE PRODUCT(S). Should a product defect be suspected at the time of application, cease use of the product immediately and notify Smith Paint Products for investigation otherwise you will be responsible for the cost to repair or replace any work performed with product(s) suspected of defect. Record batch codes and save all products you purchased in order for any warranty to occur allow with the invoice that matches said quantity. Defects determined after installation must be reported to Smith Paint Products within 10 business days of discovery.

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