



HPPC HIGH PERFORMANCE POLYASPARTIC COATING

THE ORIGINAL COLOR CHIPS COMPANY 26200 GROESBECK HWY WARREN, MI 48089 USA

HPPC is a two component 100% solids polyaspartic aliphatic urethane seamless binder for broadcast systems. This material can be used with decorative quartz or color chip applications. HPPC has excellent chemical resistance, hardness, abrasion resistance, UV stability and has an excellent clear gardner color. However, the outstanding feature of this product is its exceptionally quick tack free time of around 1-2 hours for foot traffic while providing the applicator about a 1/2 hour pot life to work with the material.

Recommended for areas where a high build broadcasted floor is desired and installation downtime is very limited. Due to the quick working time, HPPC is recommended only for advanced users.

SOLIDS BY WEIGHT:

100% (+/- 1%)

SOLIDS BY VOLUME:

100% (+/-1%)

VOLATILE ORGANIC CONTENT:

Zero pounds per gallon

COLORS AVAILABLE:

Clear – gardner color 1-2

RECOMMENDED FILM THICKNESS:

Is variable depending on aggregate used. A typical application would involve the application of the mixed liquids with a 1/16 inch (62.5 mil) notched squeegee, then broadcasted, followed by a second saturation coat of mixed liquids, then broadcasted and finally followed with a topcoat of the mixed liquids. This type of system will produce about a 125 mil (1/8") build. When used as a coating to seal a broadcasting or troweled system, apply only enough material to seal the substrate.

COVERAGE PER GALLON:

25 square feet per gallon per broadcasted coat when the liquid is applied at 62.5 mils and 160 sq. ft. per gallon as a seal coat at 10 mils.

PACKAGING INFORMATION:

1.2 gallon kit (net approximately)
2.45 gallon kits (net approximately)

MIX RATIO:

6.3 pounds part A to 4.7 pounds part B (approximately 1.2 gallon mixed per this kit size)

SHELF LIFE:

6 months in unopened containers

FINISH CHARACTERISTICS:

Gloss (>75 at 60 degrees @ Erichsen glossmeter)

COMPRESSIVE STRENGTH:

12,000 psi @ ASTM D695

TENSILE STRENGTH:

3,900 psi @ ASTM D638

ULTIMATE ELONGATION:

2.4%

HARDNESS:

Shore D= 80

ABRASION RESISTANCE:

Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 21 mg loss

ADHESION:

350 psi @ elcometer (concrete failure, no delamination, applied to shotblasted concrete)

VISCOSITY:

Mixed= 1,000-2,000 cps (typical)

DOT CLASSIFICATIONS:

Part A "not regulated"

Part B "not regulated"

CURE SCHEDULE: (70°F)

pot life – (1 gallon volume).....20-40 minutes
tack free (dry to touch).....1-2 hours
recoat or topcoat.....2-3 hours
light foot traffic.....1-4 hours
full cure (heavy traffic).....24-48 hours

APPLICATION TEMPERATURE:

50-90 degrees F with relative humidity below 85% for best results

CHEMICAL RESISTANCE:

| REAGENT | RATING |
|-----------------------|--------|
| xylene | C |
| 1,1,1 trichloroethane | B |
| MEK | A |
| methanol | B |
| ethyl alcohol | B |
| skydrol | C |
| 50% sodium hydroxide | E |
| 10% sulfuric acid | C |
| 10% HC1 (aq) | C |
| 5% acetic acid | C |

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

PRIMER:

Highly Recommend, a suitable epoxy broadcasted base system. Due to the quick tack time, adhesion properties to the substrate is limited.

TOPCOAT:

Optional: none required

LIMITATIONS:

- *Substrate temperature must be 5°F above dew point.
- *Too thick of an application may result in surface imperfections or bubble generation.
- *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.



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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.

PRODUCT MIXING: This product has a mix ratio of 6.30# part A to 4.7# 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. Due to the quick tack time, adhesion to bare concrete is very poor.

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. This product is only intended for use in or over an aggregate broadcasted system or a troweled decorative quartz system. The product can be used as a topcoat to seal in the broadcasted sand base or quartz troweled base for the final coat. Improper mixing may result in product failure. When used as a basecoat for chip broadcast systems, it is wise to have 3 people apply this product simultaneously, 1 person using a squeegee to spread the coating onto the floor, 1 person to backroll the coating to even it out, and 1 person throwing chips.

RECOAT OR TOPCOATING: This material can be applied in multiple broadcast 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.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our product is manufactured to the specifications as stated here or in other publications. All other information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Uncured epoxy resins, polymers and their curing agents may be ALKALINE, TOXIC or BOTH, depending on the particular system. They may cause ALLERGIC REACTIONS or HYPERSENSITIVITY REACTIONS. BEFORE USING any material, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.