

TECHNICAL DATA- GP-20 Slow Set POLYASPARTIC SEALER

DESCRIPTION:

GlobMarble GP-20 Slow Set is two component 90% solids aliphatic - high gloss polyaspartic sealer designed for application over interior concrete, cement-based overlays, or as a top finish coat on epoxy systems. This material can be used as the base coat and the topcoat over paint chip decorative broadcasts or colored sand broadcasts to provide an infinite array of color schemes or patterns. GlobMarble GP-20 Slow Set polyaspartic has excellent chemical resistance, hardness, abrasion resistance, UV stability and has a good clear gardner color.

GlobMarble GP-20 Slow Set polyaspartic is 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 sealer.

SPECIFICATIONS:

RECOMMENDED FILM THICKNESS:

0.10-15 mils. (when applying directly to concrete, precautions should be taken to properly prepare the substrate and the moisture content of the substrate should be tested. Do not apply to damp surfaces.)

COVERAGE PER GALLON:

300-400 square feet for standard application.

107-160 square feet for epoxy flakes

PACKAGING INFORMATION:

1.5 and 2. gallon kit (packaging information is approximate net volume)

MIX RATIO:

(By Volume) 1.5 parts A, 1-part B

SHELF LIFE:

6 months in unopened containers

SOLIDS BY WEIGHT:

90% (+/- 2%)

SOLIDS BY VOLUME:

88% (+/-2%)

VOLATILE ORGANIC CONTENT:

Less than 100 grams per liter

COLORS AVAILABLE:

Clear – gardner color 1-2

FINISH CHARACTERISTICS:

Gloss (>70 at 60 degrees @ glossmeter)

COMPRESSIVE STRENGTH:

11,500 psi @ ASTM D695

TENSILE STRENGTH:

3,800 psi @ ASTM D638

ULTIMATE ELONGATION:

2.8%

HARDNESS:

Shore D= 30

ABRASION RESISTANCE:

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

ADHESION:

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

VISCOSITY:

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

DOT CLASSIFICATIONS:

Part A “UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS Xylene), 3, PG III

Part B “UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS Xylene), 3, PG III

CURE RATES: 70F (21C) (70% relative humidity)

pot life (to gel) – (150-gram mass) greater than 2 h.

(Actual usable working time is approximately 20-25 minutes, depending on environmental conditions and volumes)

tack free (dry to touch)3.7 hours

recoat or topcoat.....5-8 hours

light foot traffic.....6-8 hours

full cure (heavy traffic)24-72 hours

APPLICATION TEMPERATURE:

50-90 degrees F (10-32C) with relative humidity below 85%

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% HCl (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:

Recommend 100% solids epoxy broadcasted base system

TOPCOAT:

Optional: none required

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.
- *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 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 28 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

MIXING AND APPLICATION INSTRUCTIONS (GP-20 Slow Set)

- 1) **PRODUCT STORAGE:** Store GP-20 Slow Set polyaspartic sealer in a room temperature area. Prolonged storage should be anywhere between 60- and 90degree F (16-32 C). Low temperatures and/or temperature fluctuations may cause crystallization of the polyaspartic sealer.
- 2) **SURFACE PREPARATION:** Prepare surface according to the type of complete system to be applied. All dirt, oil, dust, sealers, paint and other contaminants shall be removed to assure proper bonding to the substrate. Use mechanical scarification or acid etching until a desirable result is achieved. Diamond grinding or shot blasting is recommended for the best result. Patching may be required prior to application of 100% solid seamless epoxy coating.
Make a test to determine that the concrete has an appropriate vapor barrier by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours the substrate is still dry under the plastic sheet, then the substrate has no signs of eventual hydrostatic pressure problems that may later cause disbanding. 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
- 3) **PRODUCT MIXING:** This product has a mix ratio of 1.5-part A to 1-part B. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. After combining both parts, mix them well with slow speed mixing equipment (like a jiffy mixer) until the material is thoroughly mixed for 3 minutes and has no streaks. After mixing, transfer the mixed material to another pail and mix again. This is done to avoid unmixed material ruining your work. Your material is now ready to be applied on the primed surface. Improper mixing may result in product failure. Once A & B parts are mixed, the catalyzed GP-20 Slow Set polyaspartic should be placed on floor immediately. Left polyaspartic in pail will cure at accelerated rates. Do not leave pail upside down to drain onto floor. Any un-mixed portion of A or B that may have accidentally been placed onto side of pail can now drain down onto the floor, creating a spot that will not cure.
- 4) **PRIMING:** A suitable primer should be used before applying this product. If a primer is not used, porous surfaces can cause outgassing, bumps, and a variety of product defects. Screen the primer coat with a 100-grit sanding screen on a rotational floor machine. This screening will ensure not only a good bond between coats, but also eliminate any debris or dust that may have settled onto the preceding coat as it was curing.
- 5) **MIXING AND HANDLING:** 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. GP-20 Slow Set polyaspartic sealer 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.
- 6) **RECOAT OR TOPCOATING:** GP-20 Slow Set polyaspartic sealer 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. If Top Coat has cured beyond 12 -24 hours or if dust or debris has settled into it as it cured, it must be screened with a rotational floor machine equipped with a 100-grit sanding screen. Follow screening with vacuuming. Follow vacuuming with a micro-fiber wipe with denatured alcohol.
- 7) **CLEANUP:** Use xylol
- 8) **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.

- 9) **RESTRICTIONS:** Keep floor use at a light traffic and use non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to keep the floor dry for the full cure cycle. Caution! - surface may be slippery, especially when contaminated or wet; keep surface clean and dry.

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