

Alliance Specialty Products

High Performance Polymers

ASP 421 Self Leveling Epoxy Floor PRODUCT DATA SHEET

Product Description

ASP 421 Self Leveling Epoxy Floor is a 100% solids resin combined with a special blend of aggregate fillers to provide an exceptional floor topping. This system can be applied quickly and economically over a variety of substrates to provide a smooth, uniform finish, providing a savings in both time and labor. This **ASP Self Leveling Floor** is a resin rich system which forms a monolithic surface and requires no grout coats to fill voids.

Benefits

- Excellent for commercial and light industrial traffic areas.
- Quick repair to neglected concrete floors.
- Fast and easy to install, saving both time and money.
- Requires fewer skilled laborers.
- Applied using a hand trowel, skreed rod, or notched squeegee.
- Smooth, uniform surface.

Application Guidelines

- For preparation instructions, refer to **ASP Concrete Preparation Bulletin**.
- **NOTE:** The Self Leveling Floor is installed at 1/16" to 1/8" thickness, so heavy mechanical preparation such as scabbling or scarifying is not recommended.
- Patch deep holes or badly deteriorated areas using ASP 421 Industrial Epoxy Flooring material to form a level subfloor.
- Prime surface with ASP 321 Epoxy Primer using a squeegee and a medium nap roller. Do not allow primer to puddle.
- Mix epoxy resin with hardener for at least two minutes using a slow speed drill.
- Combine aggregate filler and drill until all of the mix is uniformly wet.
- Spread material evenly and back roll

with a porcupine roller to release any trapped air bubbles.

- Sweep off excess quartz and examine floor for a uniform color and texture. A second seed coat may be required.
- Seal floor using ASP 421 Clear Sealer. If a smoother finish is required, apply a second coat of ASP 421 sealer.
- Floor will cure for light traffic or coating in 8-10 hours and for heavier traffic after 24 hours.
- Floor will reach full cure in 3 days.

Performance Properties

Compressive Strength:	11500 psi @ 7 days (ASTM C-579)
Tensile Strength:	2250 psi (ASTM C-307)
Flexural Strength:	4500 psi (ASTM C-580)
Bond Strength:	350 psi (concrete fails)
Thermal Coefficient of Expansion:	0.000046 in/in/° F (ASTM D-696)
Abrasion Resistance:	0.1g loss max -CS-17 wheel, 1kg load, 1000 cycles
Thermal Shock Resistance:	Passes (ASTM D-1044)
Water Absorption:	0.1% (ASTM C-413)
Flammability:	Self-extinguishing (ASTM D-635)
Impact Resistance:	16 foot-pounds (concrete fractures)
Indentation:	No indentation (MIL-D-3134F)

Chemical Resistance

Reagent	Rating
5% Acetic Acid	O
Acetone	O
Bleach	O
30% Citric Acid	O
Crude Oil	R
Diesel Fuel	R
Ethylene Glycol	R
Fatty Acids	O
Gasoline	R
15% Hydrochloric Acid	R
15% Lactic Acid	R
Methyl Ethyl Ketone	O
10% Nitric Acid	R
Skydrol	R
50% Sodium Hydroxide	R
20% Sulfuric Acid	R
Toluene	O
Urea	R
Vinegar	O
Xylene	O

O – Occasional spills

R – Recommended for continuous service

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Care & Maintenance

- **ASP Self Leveling Floor Systems** must be protected from traffic, chemicals, and abuse during the cure process.
- Newly installed floors should be cured a minimum of 18 hours at 65° F before wash downs.
- Only warm water should be used to clean within the first week. If use of a detergent is necessary in the first week, use only a NON-CHLORINE cleaner dissolved in water.
- Sanitizing detergents containing chlorine or hypochlorite should not be used for at least 7 days.
- Good housekeeping practices and regulated spill removal will prolong the life of the floor.
- ASP epoxy floors are not self-cleaning nor always non staining.
- The following are recommended weekly or as needed:
 - Spills must be removed and rinsed at the first opportunity.
 - Sweep or vacuum loose dirt and debris.
 - Use an industrial detergent, dissolved in water as directed by the manufacturer.
 - Power scrub surface, then rinse with a pressure washer.
 - Remove rinse water with a wet vacuum or a squeegee.
 - Conventional methods are also acceptable for small areas.

Colors

Solid Colors: All ASP Standard colors
See color card
Custom colors are available with some restrictions. Contact ASP for custom color matching.

Warranty

ASP warrants its products to conform to its manufacturing standards. ASP will replace or refund the purchase price or non-conforming products at the seller's option; such remedy being exclusive of all others and the sole remedy available to the buyer. Buyer expressly waives claim to additional damages. Any claim under this warranty must be made in writing within 7 days of discovery of noncompliance and no later than one year of deliver of the product. No representative, distributor or applicator is authorized to modify the product data or warranty.

Important Notice

These products are sold subject only to the preceding, express warranties. There are no other warranties by ASP of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Buyer agrees that seller assumes no liability for remote or consequential damages of any kind which result from the use or misuse of the product. Preceding information is based on data believed to be reliable, however, it is the Buyer's responsibility to be satisfied as to the suitability of the product for a particular purpose.