

Alliance Specialty Products

High Performance Polymers

ASP 421 Industrial Epoxy Floor PRODUCT DATA SHEET

Product Description

ASP 421 Industrial Epoxy Floor is an aggregate filled epoxy mortar used to resurface concrete floors. This system combines 100% epoxy resin with a blend of graded aggregates to achieve a dense, impact, and wear resistant surface. The mortar is trowel applied or machine troweled to level worn or damaged areas of the concrete or may be used to slope concrete for positive drainage. The ASP 421 material is excellent as a patching compound for small areas or to top concrete floors in traffic aisles, production areas, or in warehouses. The mortar contains no solvents, so it may be used in occupied facilities.

Benefits

- Contains no solvents or water, so it can be installed in occupied areas.
- Mortar may be applied to horizontal or vertical surfaces with no special additives.
- Medium to fast cure material allows for minimum down time.
- Hand troweled or machine troweled mortar for a dense, durable wear surface.

Application Guidelines

- For preparation instructions, refer to **ASP Concrete Preparation Bulletin**.
- Prime concrete using **ASP 321 Damp Proof Epoxy Primer** using a squeegee to spread primer and a medium or long nap roller for even coverage.
- Apply **ASP 421 Industrial Flooring Epoxy** mortar at a rate to achieve a nominal finish thickness of ¼ inch.
- Apply a grout coat of pigmented **ASP 421 Top Coating** to seal surface.
- Apply a second coat of pigmented **ASP 421 Finish Coat**.

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 421 Industrial Epoxy 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.