

HydroPhase® APS

Advanced Primer & Sealer

Easy Application Advanced Primer & Sealer

DESCRIPTION

HydroPhase® APS (Advanced Primer and Sealer) is an environmentally friendly copolymer acrylic with low odor and low VOC that significantly enhances bond strengths to substrate when correctly applied.

CHARACTERISTICS

- Use over concrete, gypsum, wood and adhesive residues
- Tolerant of high pH
- Fast Drying
- Use on freshly placed concrete
- APS penetrates deeply into substrate
- Dries clear and is both penetrating and film forming
- Quick Drying, ready for HydroPhase® C150 SL, finished floor covering and many coatings in 60 minutes or less
- Low VOC Water-based, non-toxic
- Designed for rapid turnaround with maximum bond enhancement

SUITABLE SUBSTRATES AND USES

- Use on freshly placed concrete cured for 72 hours and free of surface water
- Existing concrete substrates
- No minimum surface profile required
- Lightweight or structural concrete, wood, adhesive residues or gypsum
- May be used directly under moisture or alkaline sensitive floor coverings
- Mechanical preparation is required to remove all contaminants or surfaces that are less than 175 psi tensile pull strength

LIMITATIONS

- Only for use by experienced professionals on interior substrates
- Do not install over substrates containing asbestos
- Ambient and concrete surface temperatures must be greater than 40°F
- Optimum installation temperatures are between 45°F and 100°F
- Do not allow product to freeze. Never use product that has been subject to freezing or storage below 40°F
- Dilute APS with clean potable water for porous substrates.
- Aggressively profiled surfaces may lower product coverage
- Never apply over surfaces where water may be seen glistening on the surface or where water may be mopped up with a dry rag or paper towel
- Always perform a water penetration test to determine whether APS will be able to penetrate the surface of the concrete
- Perform a small test patch to determine product suitability
- Do not use over luan, mdf or other substrates that degrade with moisture content

AT A GLANCE

- Excellent Bond Enhancer
- Low Odor
- Use Over Wood And Concrete
- No Minimum Profile Required
- Low Voc
- Dilute At 3:1 Ratio (Water: APS)

APPLICATION GUIDELINES

- Agitate product by hand or slow speed mixing to ensure a uniform consistency prior to application
- Concrete and wood subfloors must be clean, porous and structurally sound in accordance with ASTM F710 Standard Practice for Preparing Concrete Floors to receive resilient flooring
- Utilize ASTM F3191-16 Standard Practice for Determination of Substrate Absorption (Porosity) as an additional test procedure to ensure that substrate is clean and porous. Multiple test spots must be performed throughout all areas to receive APS
- For porous substrates dilute 3:1 (Water:APS) prior to application. NOTE: Some very porous gypsum substrates require dilution rates of 1:5 or higher (see technical bulletin Primer/Sealer Over Gypsum Substrates)
- For concrete substrates pour diluted primer on the surface and broom evenly over the substrate. Use soft tip broom only
- DO NOT apply by sprayer or roller over porous substrates
- Broom until all puddles are removed
- For non-porous substrates apply by roller only
- May be used with self leveling cement, gypsum cements and patching materials to enhance bond to substrate

CLEANUP

- Clean tools and equipment with soap and water immediately after use.
- Dispose of all materials in accordance with local, state and federal regulations.

SURFACE PREPARATION

- Concrete, wood and gypsum sub floors must be clean, and structurally sound in accordance with ASTM F710 Standard Practice for Preparing Concrete Floors to receive resilient flooring
- All substrates must be structurally sound and free from any contaminants that may inhibit product's ability to properly penetrate and/or bonding of patching/adhesives finished flooring product, including oil, grease, dust, paint, sealer, floor finishes, curing compounds and adhesives
- Weak or contaminated surfaces must be mechanically removed
- A specific CSP is not required for effective primer bond but final use of determines if mechanical preparation is required
- The type of mechanical cleaning is determined by the type and depth of contaminant(s) to be removed
- Existing cracks in the new and old concrete should be repaired with 100% solids high mod epoxy in accordance with industry recommendations prior to installation of APS. Note that repair of existing cracks in the concrete subfloor MAY only subdue but not completely prevent their ability to telegraph through
- Growth of existing cracks or formation of new cracks in the concrete subfloor can compromise the performance of APS and layers above
- DO NOT acid etch

SAFETY

- Chemical safety glasses or splash-proof goggles to be worn
- Protective gloves to be worn
- NIOSH/OSHA-approved organic vapor respirator should be used (optional in a well ventilated space)
- Long sleeved shirts and trousers
- Emergency showers and eye wash stations should be readily accessible
- Refer to SDS for specific safety instructions

FOR PROFESSIONAL USE ONLY

HydroPhase® APS is intended for use by trained professionals only as a part of the HydroPhase® system. Warranties do not apply if used with other manufacturer's components except where excluded prior to installation in writing by Formulated Materials LLC.

PHYSICAL PROPERTIES

Physical State	Liquid
Color	Milky White, Clear when dry
Percentage Solids	23%
VOCs	<1 g/l
Dry Time	30-60 min per coat
Recommended Ambient Temp	45° - 100°F (7° - 38°C)
Recommended Substrate Temp	Min 40° (6°C)
Packaging	5 Gallon Pail
Total Coverage	Undiluted 150 sf per gallon. Diluted 3:1 600 sf per gallon.
Shelf Life	12 Months Unopened
Storage Requirements	50°-90°F (9° - 35°C)

WARRANTY

The information contained herein is based on laboratory testing and believed to be accurate. Due to an inability to anticipate all variations or possible applications, we cannot guaranty the reliability of the information listed herein. The applicator is responsible to test and determine product suitability for each intended purpose. Formulated Materials warrants the product is free of manufacturing defects and conforms to published product properties.

THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

ASTM REFERENCES

ASTM F3010 - Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings

ASTM C1315 - Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete

ASTM C309 - Standard Specification for Liquid Membrane-Film Forming

ASTM E96 - Standard Test Methods for Water Vapor Transmission of Materials

ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using In Situ Probes

CSI DIVISION CLASSIFICATION 09 80.00