



RubberShield WP

Product Information and Technical Data

PRODUCT DESCRIPTION: RubberShield WP is a resinous, single component, exterior acrylic latex primer that is blister resistant, permanently flexible and highly durable. It exhibits excellent alkali resistance for use over concrete and masonry substrates. Because of its ability to penetrate, RubberShield WP is able to “wet” into chalky or previously painted surfaces. It can be top-coated using a wide variety of finish coat options. RubberShield WP is fast-drying, remains permanently flexible and exhibits excellent weathering characteristics.

RubberShield WP is a water-based product and conforms to all required local, state and federal environmental and VOC criteria. It is also highly alkali resistant, meeting the requirements of ASTM C315.

BASIC USES: RubberShield WP is used to increase the bond over new or unpainted wood substrates. It is also effective at locking down residual chalkiness on previously painted exterior surfaces. On concrete and masonry substrates, the alkali resistance of RubberShield WP makes it an ideal choice for use under RubberShield coating systems.

PACKAGING AND MIXING: RubberShield WP is a single component, ready to use material available in 5-gallon pails and 55 gallon drums.

Prior to use, mix the material thoroughly until an even consistency were achieved. Use a power mixer or other mechanical method capable of mixing the contents of the entire container. Reducing the material is not normally required; however a small amount of water may be added, if necessary.

PHYSICAL PROPERTIES

Property	Value	Method
Solids by Weight	29% (+1)	ASTM D2369
Solids by Volume	19% (+1)	ASTM D2697
Viscosity	1300(+300)cps	ASTM D2196
Weight per Gallon	9.5 lbs (±2) (4.3kg)	ASTM D1475
Dry Time to Touch	20 to 30 minutes @ 75°(24° C), 50% R.H.	ASTM D1640
Cure Time for Recoating	45 to 90 minutes @ 75°F (24°C), 50% R.H.	ASTM D1640

ADVANTAGES

APPLICATION VERSATILITY: RubberShield WP exhibits excellent adhesion over a wide variety of properly prepared surfaces including new and weathered wood, previously painted substrates, concrete, masonry, brick and exterior wallboard.

HIGH RESIN CONTENT: RubberShield WP contains a high ratio of resin-to-filler pigments, providing excellent cold temperature performance. This also allows it to provide

maximum adhesion by wetting into bare substrates as well as existing finishes.

EXCELLENT FLEXIBILITY: The acrylic resins utilized in RubberShield WP promote maximum penetration and flexing characteristics. It does not embrittle with age.

VOC COMPLIANT: RubberShield WP is a water-based product and conforms to all required local, state and federal environmental and VOC criteria. Cleanup is easily accomplished using soap and water.

COLORS: RubberShield WP is available in standard Off-White. It can also be tinted to a wide range of custom colors to meet specific project requirements.

SURFACE PREPARATION: All surfaces must be clean and dry, free of dirt, grease, oils, soapy films, pollution residue, surface chemicals, rust, scale and other foreign contaminants that may interfere with optimum adhesion.

All loosely adhering paint or coating shall be completely removed by scraping, pressure washing, blasting or other mechanical means. Any existing paint or coating, not completely removed, shall be verified as still tightly bonded to the substrate. Prior to coating over any existing paint or coating, a test area must first be established, verifying compatibility and adhesion.

Glossy surfaces must be dulled by abrading via brush-blasting, sanding or other mechanical means. Chalky, oxidized or contaminated surfaces must be pre-washed using RubberShield Cleanser or equivalent biodegradable cleaner.

WOOD SURFACES: Wood shall be free of dust, ridges and projections. All pits, gouges, knot holes and other depressions shall be filled and leveled using exterior grade wood filler. Degraded, deteriorated or unsound substrates shall be repaired or replaced. If tannin or stain-blocking qualities were required over wood substrates, RubberShield WP should be utilized.

CONCRETE SURFACES: Concrete surfaces must be free of curing agents, release agents, surface chemicals, sharp projections, ridges or loose aggregate. New concrete should be water-cured in lieu of using a curing compound. Restore loose aggregate to a stable condition using approved cementitious patching or resurfacing compound.

Sandblasting of concrete would be necessary if the surfaces were contaminated to the point that acid, chemical cleaning or power washing were not sufficient for removal. Concrete surfaces, having a smooth, steel trowelled finish, should be acid-etched or sandblasted. RubberShield WP provides excellent alkali resistance over concrete and masonry substrates.

OTHER SURFACES: RubberShield WP adheres directly to most clean fiberglass and plastic surfaces. New or dense surfaces should be scuff-sanded prior to priming.

RubberShield WP can be top-coated as soon as it has thoroughly dried and should normally be top-coated within 48 hours of application. Surfaces having become contaminated must be recleaned prior to top-coating.

APPLICATION

RubberShield WP may be applied by brush, conventional or airless spray. Any airless sprayer capable of 1,000 psi (6,980kPa) and ½ gallon per minute (1.9 l/minute) output may be used. A reversible, self-cleaning spray tip with an orifice size of .015" to .019" (.38 to .53 mm) and minimum 40 degree fan angle, would be practicable. Before spraying, flush equipment with clean water.

Coverage rates will vary depending upon the substrate, its surface profile and porosity. One coat is usually sufficient for priming most surfaces. The following chart should be used as a guideline only for determining approximate application rates:

Substrate	Coverage Rate
Wood	250-300 ft ² /gal (6.1-7.3 m ² /1)
Smooth Concrete	250 ft ² /gal (6.1 m ² /1)
Standard Concrete Block	200 ft ² /gal (4.9 m ² /1)
Lightweight or Textured Block	150 ft ² /gal (3.7 m ² /1)

When using **RubberShield WP** as a spot primer over previously coated surfaces, abrade the existing material to a feather edge so that the topcoat makes a smooth transition over the primed areas. Apply using multi-directional spray pattern to assure positive, even coverage. On porous or textured surfaces requiring more than one coat, subsequent coats should be applied in directions perpendicular to the dried, previously applied coat. When used as a shop primer, the surfaces should be thoroughly washed using **RubberShield Cleaner**, or equal, and spot primed as needed prior to top coating.

Once completed, use detergent and water to thoroughly flush the spray equipment. Purge the water from the system using a mild solvent. Leave the solvent in the lines until the next use.

LIMITATIONS AND PRECAUTIONS

RubberShield WP will freeze and become unusable below 32°F (0°C). Do not ship or store unless protection from freezing were available.

Do not apply if conditions would not permit complete curing prior to rain, dew or freezing temperatures. Do not apply **RubberShield WP** at temperatures falling below 50°F (10°C) or if there were a possibility of temperatures falling below 32°F (0°C) within two hours after applying.

RubberShield WP may irritate skin. Avoid breathing vapor or spray mist. Approved MSHA/NIOSH chemical cartridge respirator must be worn by applicator. Avoid contact with eyes and skin. For additional information, refer to OSHA guidelines and **RubberShield WP** Material Safety Data Sheet.

