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## Product Information Sheet

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### **PSC 4300 Aqua-Shield** **PSC 4320 Agri-Shield Caulking** **PSC 4330 Reinforcing Fabric**

PSC 4300 Aqua-Shield is a proprietary, high build acrylic elastomeric coating. When applied as directed at 13 mils wet film thickness per coat over primer coat, PSC 4300 bridges minor surface imperfections, hairline cracks, providing outstanding durability and long lasting protection. It has superior aging characteristics eliminating the causes of ruptures, cracks and delaminating. It withstands substrate movement and accommodates rapid changes in temperature. PSC 4300 Aqua-Shield allows the substrate to breathe, therefore the supporting structure underneath will not be damaged by the presence of moisture and activated salts. When applied in accordance with the instructions outlined in these Product Information Sheets, PSC 4300 produces a tough, monolithic, fungi and mildew resistant solar reflective, UV resistant coating which expands and contracts with the underlying structure.

PSC 4300 Aqua-Shield is an easy to use waterproofing material that seals leaks and bridges small gaps. It comes as a thick white liquid that forms a long lasting rubbery coating. For larger cracks and expansion joints use PSC 4320 Agri-Shield Butyloid Caulk and PSC 4330 Reinforcing Fabric according to instructions lined out below. For larger holes in concrete or uneven surfaces use PSC 260x Overlays or PSC 2552 PolyBond.

#### **Uses**

- Seal and waterproof grain bins.
- Seal RV and trailer roofs.
- Coat roofs and walls of animal shelters and farm buildings to reduce heat build-up inside buildings.
- Waterproof leaking metal roofs.
- Waterproof and decorate stucco and block walls.

#### **Advantages**

- One product for waterproofing wood, plywood, OSB, stucco, concrete, concrete blocks, galvanized steel, asphalt coatings, shingles and polyurethane foam.
- Excellent elongation properties.
- Excellent low temperature flexibility.
- Bridges small gaps.
- Provides a long lasting rubbery surface.
- High solids content.
- Non-flammable, non-toxic.
- Resists UV damage, acid rain and mildew
- Environmentally friendly.
- Highly alkaline resistant
- Does not sustain micro bacterial or algae growth

#### **How does PSC 4300 Aqua-Shield perform?**

- it bonds to substrate and becomes an integral part of the structure.
- It is liquid applied to form a seamless protective barrier.
- It protects from chemical damage resulting from acid rain and salts carried by rain.
- It protects from mechanical damage occurring by not allowing rain or sleet to erode surfaces it is applied to and it does not allow water to penetrate the pores of coated surfaces, thus to cause fractures.
- It protects from biological attack which can occur when algae and moss grow on dampened surfaces.
- System is sustainable for the life of the structure.

## General data

-	Type	Acrylic Elastomeric.
-	VOC	Less than 10 g / L
-	Volume solids	57 %
-	Tint bases	Can be tinted to pastel colors
-	Color	White
-	Coverage	120 sq. ft./gallon
-	Film thickness-Wet	13 mils
-	- Dry	7 mils
-	Drying time @ 20 C (68F)	Recoat after 2 hours
-		Full cure 24 hours
-	Dries by	Evaporation, coalescence
-	Viscosity	15,000 cps, 12 rpm (Brookfield, 21 C)
-	Flash point	N/A
-	Sheen	Matte
-	Surface temperature at application	Min. 5 C (42 F) Max 35 C (95 F)
-	Thin with	Clean water (only for priming)
-	Storage temperature	Min. 5 C (42 F) Max 32 C (90 F)

## Surface preparation

Surface must be clean, structurally sound, free of grease, chalk, loose masonry, peeling paint, loose rust, release agents, efflorescence, mildew and bleeding stains.

Glossy areas should be dulled. Areas which are not weathered must be power washed or scrubbed with a strong detergent such as PSC 0100 Cleaner Degreaser and rinsed to remove surface salts that can interfere with adhesion.

If mildew is present, it must be removed by scrubbing with commercial mildew wash. Use rubber gloves, work goggles and protective clothing when applying mildew wash. Follow manufacturer directions.

## Cracks and expansion joints

Seal cracks and expansion joints with PSC 4320 Agri-Shield Butyloid Caulk. Allow to dry. Cut PSC 4330 Reinforcing Fabric to overlap each side of cracks and expansion joints by 3" (7.5 cm). Apply a first coat of PSC 4300. Center fabric over application area and press fabric into the wet coating. Allow to dry a minimum of 2 hours before applying more coats of PSC 4300 Aqua-Shield. Large cracks and holes on masonry surfaces should be repaired with PSC 260x Overlays or with PSC 2552 PolyBond. Refer to appropriate Product Information Sheets.

## Concrete application

Follow directions above. Concrete must have been cured for a minimum of 14 days. Prime with PSC 4300 Aqua-Shield diluted with 5 % of clean water. Allow to dry a minimum of two hours before applying next coat.

## Asphalt application

Follow directions above.

## Metal application

Power wash the metal with a solution of 4 ounces of PSC 0100 Cleaner Degreaser in 1 gallon of water. Rinse thoroughly with clean water and allow to dry before coating with water based acrylic primer.

## Wood preparation

Remove all loose dirt, dust and paint. Scrub or power wash the substrate with PSC 0100 Cleaner Degreaser if oily contaminants are present. Sand smooth surfaces with 200 grid sand paper. Rinse with clean water and allow to dry. Treat cracks and expansion joints as outlined above.

## Application

Apply as received in the container. Do not add other paints or solvents. Thoroughly stir prior to use. Avoid entrapping excessive quantities of air when stirring or dispersing colorants. PSC 4300 can be applied by airless spray, roller or brush. Do not apply when air and surface temperatures are below 5 C (42 F), nor in damp or rainy weather. Do not apply to surfaces with excessive moisture content.

Apply a liberal coat with a brush and work well into crevices and holes to adequate penetration and sealing. Brush in a downward motion to ensure uniform finish with the stipple in one direction.

## Application by roller

Apply in two crosshatch coats at 90 degrees to each other. Keep roller saturated with material at all times. Allow first coat to dry a minimum of two hours, or until it's no longer tacky, before applying second coat. Finish off with a dry roller in downward motion to ensure uniform finish with the stipple all in one direction.

## Airless spray

Apply generously in a cross hatch pattern to achieve a pinhole free surface. Coverage will vary according to surface texture and profile. Use equipment capable of maintaining 2,500 to 2,700 psi at the tip. Orifice size: 0.019" (0.48 mm) to 0.023" (0.58 mm).

## Drying time @ 50 % R.H.

Substrate Temperature	Recoat after	Full cure
5 C (42 F)	8 hours	4 days
10 C (50 F)	4 hours	2 days
20 C (68 F)	2 hours	24 hours

## Thinning / Cleanup

Do not thin finishing coats; thinning will reduce the thinning ability of this product. Never add other paints or solvents. Wash all equipment with warm detergent and rinse thoroughly with clean water. Spray equipment should be given a final rinse with mineral spirits to prevent rusting.

Use completely or dispose properly. Dry, empty containers may be recycled in a can recycling program. Local disposal requirements vary; consult your sanitation department or local environmental agencies for more information on disposal options.

## Environmental and safety information

Use only with adequate ventilation, do not breathe vapors, spray mist or sanding dust. Avoid contact with eyes and prolonged or repeated contact with skin. Wear eye protection and gloves during application or sanding. A dust / particulate respirator approved by NIOSH should be worn when sanding or spraying. Close container after each use.

## First aid

If affected by inhalation of vapors or spray mist, remove to fresh air. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and call a physician; for skin, wash thoroughly with soap and water. In case of ingestion – do not vomit, get medical help immediately.

## In case of spill

Absorb with inert material and dispose off as specified under Thinning / Cleanup.

## Shelf life

PSC 4300 Aqua-Shield has a shelf life of 12 months minimum in unopened containers.

PSC 4320 Agri-Shield Butyloid Caulk has a shelf life of 12 months in an unopened container.

## Limitations

- Do not use for immersion service.
- Do not use for applications below grade.
- Do not apply if precipitation or freezing temperatures are expected before full cure is achieved.
- Do not store at temperatures below 5 C (42 F) or above 32 C (90 F).

## Packaging

PSC 4300 Aqua-Shield	36 x 5 USG pails on a pallet. 5 USG pails 1 USG cans
PSC 4320 Agri-Shield Butyloid Caulk	12 Cartridges/case
PSC 4330 Reinforcing Fabric	12 Rolls/case

## Warranty Disclaimer

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