

Product Description

Polycoat-Aquaseal® 5000 is a single component, liquid applied, bitumen modified, coal tar free, moisture cured polyurethane waterproofing membrane. The standard Polycoat-Aquaseal® 5000 may be applied to both fully cured (28 days for poured in place and 10 days after grouting for block). Polycoat-Aquaseal® 5000GC may be applied to Green Concrete. For Green Concrete, GC Additive must be added to Polycoat-Aquaseal® 5000 at a ratio of ½ pint GC Additive (256 ml) to 5 gallons (18.9 liters) of Polycoat-Aquaseal® 5000.

It is available in four application versions. On 28-day cured concrete it is in the Horizontal (H) and Vertical (V) grade versions. Green Concrete (GC) it is in the Horizontal (GCH) and Vertical (GCV) grade versions. Polycoat-Aquaseal® 5000 is in complete compliance with SCAQMD air quality standards, and has VOC levels equal to or less than 100 grams per liter. Make sure to use the correct grade of product which complies with VOC regulations/requirements applicable as per federal, state, statutory, counties, cities and local bodies at the place of installation.

Color

Black

Coverage

The approximate coverage is 2 gallons/100 per sqft (0.41 l/sqft) which results in a dry film thickness of 28 mils (355 microns). Coverage rate will depend on surface roughness and porosity.

Surface Preparation

Refer to General Guidelines for complete information.

Joints, Cracks and Flashing:

Apply a stripe coat of Polycoat-Aquaseal® 5000 over all cracks up to 1/16" (1.58 mm) width. All cracks over 1/16" (1.58 mm) width must be caulked with a polyurethane sealant.

All metal flashings must be primed with manufacturer's recommended primer.

FEATURES

- » Economical
- » User Friendly
- » Labor Saving
- » Resistant to Bacteria
- » Meets the Criteria of ASTM C-836 and E-96

TYPICAL USES

- » Bridges
- » Tunnels
- » Planters
- » Basements
- » Between Slabs
- » Foundation Walls
- » Shower Pans

PACKAGING

5-Gallon	5 gallon (18.9 liter) pail
55-Gallon	55 gallon drum, net fill 50 gallons (189 liters)


Mixing

Before application, Polycoat-Aquaseal® 5000 should be thoroughly mixed using a mechanical mixer at slow speed to ensure a homogeneous material. Take care not to allow entrapment of air into the material. Do not mix in an up and down motion.

Application

TECHNICAL DATA (BASED ON DRAW DOWN FILM) POLYCOAT-AQUASEAL® 5000 (100 VOC) PROPERTIES

	5000H HORIZONTAL	5000V VERTICAL	5000GCH HORIZONTAL	5000GCV VERTICAL
Hardness, ASTM D-2240	50 ± 5 Shore A	45 ± 5 Shore A	50 ± 5 Shore A	45 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624	40 ± 20 pli 21 ± 3.5 kN/m	35 ± 20 pli 14 ± 2 kN/m	40 ± 20 pli 21 ± 3.5 kN/m	35 ± 20 pli 14 ± 2 kN/m
Tensile Strength, ASTM D-412	350 ± 30 psi 3.45 ± 0.3 MPa	350 ± 30 psi 3.45 ± 0.3 MPa	350 ± 30 psi 3.45 ± 0.3 MPa	350 ± 30 psi 3.45 ± 0.3 MPa
Ultimate Elongation, ASTM D-412	300 ± 50%	300 ± 50%	300 ± 50%	300 ± 50%
Specific Gravity	1.32 ± 0.1	1.23 ± 0.1	1.32 ± 0.1	1.23 ± 0.1
Total Solids by Weight, ASTM D-2369	92 ± 3%	92 ± 3%	92 ± 3%	92 ± 3%
Total Solids by Volume, ASTM D-2697	90 ± 3%	90 ± 3%	90 ± 3%	90 ± 3%
Viscosity at 80°F (27°C)	5000 ± 2000 cps	40,000 ± 2000 cps	5000 ± 2000 cps	40,000 ± 2000 cps
Volatile Organic Compounds, ASTM D-2369-81	0.83 lb/gal, 100 gm/liter	0.83 lb/gal, 100 gm/liter	0.83 lb/gal, 100 gm/liter	0.83 lb/gal, 100 gm/liter
Service Temperature	-25°F to 200°F -31.7°C to 93.3°C	-25°F to 200°F -31.7°C to 93.3°C	-25°F to 200°F -31.7°C to 93.3°C	-25°F to 200°F -31.7°C to 93.3°C



Polycoat-Aquaseal® 5000 may be applied with a brush, squeegee, trowel, roller or airless sprayer. Over smooth surfaces, such as poured-in-place concrete, apply Polycoat-Aquaseal® 5000 evenly in two 30 mil coats. Polycoat-Aquaseal® 5000WC-H (Water Catalyzed) can be applied at any thickness.

Membrane Protection

As soon as possible after completion of a successful water test or visual inspection and/or repairs, cover membrane with approved protection board or geotextile drainage composite. All horizontal and vertical membrane must be protected.

Curing

At 75°F (24°C) and 50% relative humidity, allow each coat of Polycoat-Aquaseal® 5000 Vertical, Horizontal and Green Concrete to cure 16 hours minimum.

Cure time will vary depending on temperature and humidity. If more than 48 hours pass between coats the surface must be re-primed.

Polycoat-Aquaseal® 5000 is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in thickness of application. Limit single coat thickness to 30-40 wet mils (760-1016 microns).

Cleanup

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

Storage

Polycoat-Aquaseal® 5000 has a shelf life of one year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

Limitations

The following conditions must not be coated with Polycoat Products deck coating systems or products: on grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, swimming pools, magnesite, non-structural lightweight concrete. Asphalt surfaces and asphalt overlays may be coated with Polycoat coating systems if first coated with the Polycoat-Aquaseal® 5000.

Surfaces must be dry, clean and area of foreign matter. Clear coating may turn opaque and cloudy due to moisture penetration, especially in exterior applications. Surface may be slippery when wet. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.

With regard to coating asphalt surfaces, please contact Polycoat's technical department.

May not be exposed to Ultraviolet rays.

Warning

This product contains Aromatic Hydrocarbons, Isocyanates and Solvent.

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