



Product Description

Polycoat-Aquaseal™ 5000 WC/GC is a seamless and joint free waterproofing system created from a single component, water curable liquid applied, coal tar free, urethane/polyurea roofing and waterproofing membrane system for vertical and horizontal surfaces. The coating may be applied in the field from 30 to 250 mils (0.76-6.35 mm) in one application (when water catalyzed) while supplying simultaneous curing throughout the coating. The system may be applied as one or two applications of Polycoat-Aquaseal™ 5000 WC/GC when reinforced with fabric approved by Polycoat. The System is capable of correcting negative slope, filling pond areas and creating moderate positive slope to drain. Polycoat-Aquaseal™ 5000 WC/GC (Green Concrete) is available in horizontal (WC/GC-H), vertical (WC/GC-V), or spray grade (WC/GC-SG) version.

Color

Black

Coverage

Polycoat-Aquaseal™ 5000 WC/GC System should yield a minimum 60 mils (1524 microns) thickness in one coat if water catalyzed or two coats of 30 mils maximum each (without water) without reinforcing fabric. Systems with a total of 100 mils (0.25 cm) with reinforcing fabric approved by Polycoat Products will require 45 mils (0.11 cm) of base membrane and 45 mils (0.11 cm) of topcoat membrane. Systems with a total of 150 mils (0.38 cm) will require a base membrane of 70 mils (0.18 cm) and a topcoat membrane of 70 mils (0.18 cm) with reinforcing fabric sandwiched between coats.

Surface Preparation

Refer to General Guidelines for complete information. Joints, Cracks and Flashing:

Apply a stripe coat of Polycoat-Aquaseal™ 5000 WC/GC 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

- Applied at Any Thickness
- Economical
- Fast Curing
- Highly Flexible Over Extreme Temperatures
- Labor Saving
- Low Odor
- Meets the Criteria of ASTM C-836 and E-96
- Miami Dade Approval NOA No.: 23-0623.02
- Resistant to Bacteria
- User Friendly

Typical Uses

- Basements
- Between Slabs
- Bridges
- Foundation Walls
- Green Roof Waterproofing
- Modified Cap Sheets
- Planters
- Terrazzo and Tile Floors
- Tunnels
- Under Malls, Plazas and Promenade Decks

Packaging

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

Technical Data (Based on Draw Down Film) Polycoat-Aquaseal™ 5000 WC/GC Properties

	AQUASEAL™ 5000 WC/GC-H	AQUASEAL™ 5000 WC/GC-V	AQUASEAL™ 5000 WC/GC-SG
Hardness, ASTM D2240	30 ± 5 Shore A	30 ± 5 Shore A	30 ± 5 Shore A
Tear Resistance, Die C, ASTM D624	80 ± 15 pli 14 ± 2.6 kN/m	100 ± 15 pli 17.5 ± 2.6 kN/m	100 ± 20 pli 17.5 ± 2.6 kN/m
Tensile Strength, ASTM D412	350 ± 50 psi 2.41 ± 0.3 MPa	350 ± 50 psi 2.41 ± 0.3 MPa	350 ± 50 psi 2.41 ± 0.3 MPa
Ultimate Elongation, ASTM D412	550 ± 50%	550 ± 50%	550 ± 50%
Specific Gravity	1.20 ± 0.3	1.19 ± 0.03	1.18 ± 0.03
Total Solids by Weight, ASTM D2369	96 ± 3%	96 ± 3%	89 ± 3%
Total Solids by Volume, ASTM D2697	95 ± 3%	95 ± 3%	88 ± 3%
Viscosity at 80°F (27°C)	3500 ± 1000 cps	35,000 ± 10,000 cps	17,000 ± 5000 cps
Volatile Organic Compounds, ASTM D2369-81	<0.42 lb/gal, <50 gm/liter	<0.42 lb/gal, <50 gm/liter	<0.83 lb/gal, <100 gm/liter
Service Temperature	-25°F to 150°F -31.7°C to 65°C	-25°F to 150°F -31.7°C to 65°C	-25°F to 150°F -31.7°C to 65°C

Mixing

Before application, Polycoat Aquaseal™ 5000 WC/GC should be thoroughly mixed using a mechanical mixer and Jiffy style paddle at slow speed to ensure a homogeneous material. Take care not to allow entrapment of air into the material. Do not mix up and down motion.

Optional Water Catalyst

Mix Polycoat Aquaseal™ 5000 WC/GC with clean water using a mechanical mixer and Jiffy style paddle at slow speed at a ratio of one quart of water to five gallons of Polycoat Aquaseal™ 5000 WC/GC. The mixing ratio is 20 parts of Aquaseal™ 5000 WC/GC to 1 part of water ratio by volume. This will yield 5 ¼ gallons of coating. If longer working time is required, the water addition may be reduced to 40 parts of Aquaseal™ 5000 WC/GC to 1 part water ratio by volume. Take care not to allow entrapment of air into the material. Do not mix up and down motion. Once water is mixed with Aquaseal™ 5000 WC/GC apply within 20 to 30 minutes depending on water ratio. Water use will speed cure times, especially in cold temperatures and low relative humidity and can be applied up to 120 mils in single application without sacrificing performance.

Polycoat Aquaseal™ 5000 WC/GC can be applied without water addition. The application wet film thickness should not be more than 30 mils per coat. Allow 16-24 hours, at 75°F (24°C) and 50% relative humidity, before applying the second coat.

Application

Polycoat-Aquaseal® 5000 may be applied directly by spray, brush, squeegee, trowel or phenolic-core roller. Apply Polycoat-Aquaseal™ 5000 WC/GC evenly over the primed surface in 60 mil+ (1524 microns) application thicknesses.

When reinforcing fabric is used; specified mils of base membrane is applied followed by the application of reinforcing fabric by broomed or spike roller into place saturating the fabric into the wet membrane. Overlap fabric 6" (15.24 cm) and apply coating over the laps and adjacent areas. An additional membrane as a topcoat is applied over the fabric.

The fabric installation should be wrinkle and air-pocket free before applying topcoat. Reinforcing fabric should be applied after the first application of Polycoat-Aquaseal™ 5000 WC/GC is firm in approximately 2 hours.

Primer is optional on plywood and CMU. Polyprime® 21 is acceptable on concrete surfaces. Allow primer to become "thumbprint tacky" before coating application. Consult Polycoat Products before choosing primer on single-ply membrane surfaces.

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 WC/GC to cure 2-4 hours minimum between subsequent coats when using water as catalyst.

Cure time will vary depending on temperature and humidity. At 75°F (24°C) and 50% relative humidity, allow the full system of Polycoat-Aquaseal™ 5000 WC/GC to cure 16-24 hours minimum before applying protection board, overburden, or backfilling. If more than 48 hours pass between coats the surface must be solvent wiped and recoated with Polyprime® U or Polyprime® 172.

Cleanup

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

Storage

Polycoat-Aquaseal™ 5000 WC/GC 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, lightweight concrete. Asphalt surfaces and asphalt overlays may be coated with Polycoat coating systems if first coated with the Polycoat-Aquaseal™ 5000 WC/GC.

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.

Limited Warranty: Please read all information in the General Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. These products are for professional use only and to be applied by professionals who have prior experience and training with the use and application of our materials, and who are fully aware of all Federal, State and local rules, regulations, and code requirements for storage, transportation, handling, installation, and application. Published technical data and instructions are subject to change without notice. Contact your local representative or visit our website for current technical data, SDS, instructions, and project specific recommendations. We warrant our products to be free of manufacturing defects and that they will meet our current published physical properties within the shelf life of products.

Our sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. We will not be liable for damages of any sort, including remote or consequential or punitive damages resulting from any claimed breach of any warranty whether expressed or implied. We will also not be responsible for use of this product in a manner to infringe on any patent held by others. No warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, adhesion, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. We reserve the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator. Your sole and exclusive remedy against us shall be limited to the paid cost of the materials sufficient to replace any affected areas where product failure has occurred. The cost of replacement materials shall, in no event, exceed the value of the original purchase price of the products, subject to equitable reductions for time of use.

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