



POLYGEM
polygem.com

Aqua-Gem™ Water Based Epoxy Primer | NO VOCs - NO SOLVENTS

Manufactured by Polygem, 5600 Lower Macungie Rd. | Macungie, PA 18062 | 630-231-5600 | Made in USA

ZOO POXY™
therming epoxy

TB - TECHNICAL BULLETIN

PRODUCT DESCRIPTION

Aqua-Gem™ Water Based Epoxy Primer is a water-based epoxy coating specially formulated for use as a surface primer for seamless flooring applications to provide superior adhesion of epoxy and urethane top-coats. Aqua-Gem is an easy to mix 1 Part A to 2 Parts B by volume mix ratio. Aqua-Gem is ideal for damp and porous concrete surfaces. Aqua-Gem is resistant to most chemicals and solvents. Aqua-Gem can be pigmented for color coating of surfaces.

ADVANTAGES

- **No VOCs**
- **No Solvents**
- **Tough & Durable Surface**
- **Chemical Resistant**
- **Solvent Resistant**
- **Moisture Tolerant**

RECOMMENDED USES

Aqua-Gem is designed to coat and seal concrete, wood, metal and fiberglass to provide a secure surface for top coating. It is ideal for use for:

- **Crack Healing & Sealing**
- **Tough & Durable Surface**
- **Exposed Aggregate Resurfacing**
- **Waterproofing Concrete Block**
- **Quartz & Flake Broadcast Flooring**

APPLICATION INSTRUCTIONS

When tinting **Aqua-Gem** a water based compatible colorant should be added after combining parts A and B then mixed until an even streak-free color is achieved.

Aqua-Gem can be diluted with water to improve penetration of concrete when used as a base coat.

When diluting, dispense and mix 1A to 2B by volume for 10 minutes before adding up to a maximum of 50% water by volume.

1. **Aqua-Gem** can be applied by squeegee, brush, roller or spraying.
2. Clean surface by shotblasting or grinding to provide clean and open surface.
3. Thoroughly mix measured amounts of 1 Part A (Resin) with 2 Parts B (Hardener) by volume until streak free. Scrape side and bottom of pail frequently during mixing to insure a good mix. Mix only enough that can be applied in 45 minutes.
4. Spread mixed epoxy with a squeegee, then back-roll evenly using a 3/8 in. (9.5 mm) nap roller. For best results, back-roll in two perpendicular directions to ensure uniform coverage and avoid puddles or dry spots.

For Rough or Porous Surfaces:

Use a 1/2 in. (12.7 mm) roller.

For Smooth, Dense Concrete:

Use a 1/4 in. (6.35 mm) roller.

5. Aqua-Gem is primarily used as a substrate primer but can also enhance the color and depth of acid-stained or water-based stained interior floors.

When used as a color enhancer, it must be topcoated with a hard clear sealer or liquid polymer wax for protection and durability.

PACKAGING

Aqua-Gem is available in a **3 Gallon kit, or 15 Gallon Kit.**

SHELF LIFE

Unopened containers of Aqua-Gem are guaranteed for 18 months. Store in temperatures between 60-80°F (16-22°C). Storing above 85°F (29°C) will reduce the shelf life. Keep from freezing.

LIMITATIONS

- Not for use on contaminated or oily surfaces.
- **DO NOT** apply when surface temperature is below 60°F (16°C) or above 85°F (29°C).
- During damp and/or cool conditions epoxy will cure more slowly. Protect finished work from traffic until fully cured

CAUTIONS

- Wear chemical goggles and NIOSH approved respirator. Wear proper protective clothing and gloves to prevent direct contact of resins. Consult Safety Data Sheet for full listing of protective requirements.
- **Aqua-Gem Water Based Epoxy Primer** may irritate eyes & skin. Avoid contact with eyes or prolonged contact with skin.
- For professional use only.
- Keep out of reach of children.

TECHNICAL SPECIFICATIONS

TYPICAL PROPERTIES | All values measured after 7 days at 73°F (23°C).

Mix Ratio: 1A:2B by volume | **Pot Life:** 50 min.* (100 gms)

Color While Mixing: Pale Yellow | **Mixed Color:** Clear Amber

Mixed Viscosity: 1,300 cps.

Thin Film Set Time: 6 Hrs.* | **Thin Film Recoat Time:** 4-5 Hrs.*

Ready For Light Foot Traffic: 12 Hrs.* | **Full Cure Time:** 18 Hrs.*

Shore Hardness: 75D | **Shelf Life:** 18 Mos.**

Elongation @ Break: 0.35% ASTM D638

*When mixed or cured at 73°F (23°C)

** From date of manufacture when stored at 73°F (23°C) in unopened containers.

POLYGEM LIMITED WARRANTY:

Polygem warrants that during the shelf life of the product (as determined from the date of manufacture), the product will conform to the specifications provided in this technical bulletin. **POLYGEM MAKES NO OTHER WARRANTIES, EXPRESSED, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.** Neither any performance or other conduct, or any oral or written representation, statement or advice provided by polygem or any of Polygem's distributors, agents, or employees will create a warranty, or in any way increase the scope or duration of this limited warranty. Polygem will have no warranty obligation if the product becomes defective, in whole or in part, as a result of: (i) the transportation of the product; (ii) any alteration or modification to the product by third parties; or (iii) improper handling or storage of the product (including improper handling or storage by third-party carriers or distributors).

073025PA | Data sheets are subject to change without notice.