TECHNICAL DATA SHEET

BEYPOXY™ 1000

MOISTURE MITIGATION SYSTEM

PRODUCT FEATURES

- **Two-Component Epoxy System:** 100% solids formulation designed for high-performance moisture control.
- **Zero VOCs:** Environmentally friendly for better indoor air quality and sustainable building standards.
- **Enhanced Epoxy Based Coating:** Prevents water vapor and moisture transmission through concrete substrates, protecting against delamination of adhesives, coatings, and floor coverings.
- **Performance Efficiency:** Reduces moisture vapor emission from up to 25 lbs./1000 ft²/24 hrs. to below 3 lbs./1000 ft²/24 hrs., meeting requirements for most flooring systems.
- **Versatile Compatibility:** Works effectively with most epoxy and polyurethane based materials.

TYPICAL USES

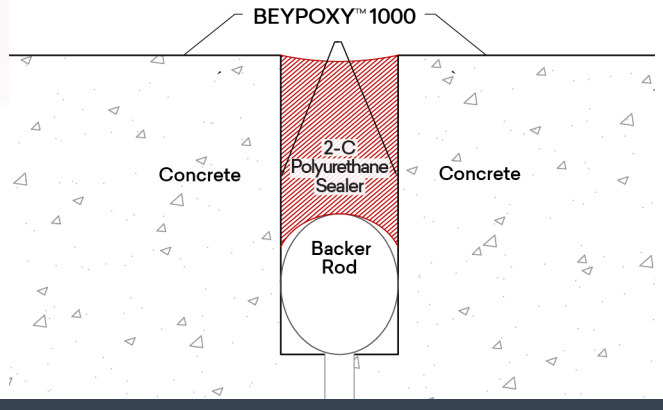
- **Moisture Mitigation:** Designed to solve issues with moisture / water vapor emission through concrete and other cementitious underlayments.
- **Surface Preparation Requirement:** May be applied on a properly prepared concrete surface which has had a minimum of 7-day cure time.
- **Versatile Applications:** Ideal for use in athletic facilities, schools, hospitals, industrial, commercial, and retail environments where floor coverings are being installed over concrete.

PHYSICAL PROPERTIES

	Imperial	Metric
Density	9.19 lbs/gal	1.10 g/cm³
Packaging	3 Gallon Kits	11.4 Liter Kits
Pot Life	45 minutes (78°F)	45 minutes (25°C)
Cure Time	4 - 6 hours (78°F)	4 - 6 hours (25°C)
VOCs	< 0.001 lbs/gal	< 0.05 g/L
Solids (Weight)	100%	
Viscosity	~ 600 cps (78°F)	~ 600 cps (25°C)

SURFACE PREPARATION

- **Structural Requirements:** Concrete substrates must be structurally sound, stable, and absorptive, meeting standards defined in American Concrete Institute (ACI) Committee 201 Report – Guide to Durable Concrete.
- **Clean Surface Conditions:** Remove all adhesives, coatings, curing compounds, sealers, efflorescence, dust, grease, oils, and other contaminants that may interfere with adhesion or curing.
- **Environmental Control:** The building envelope must be enclosed and environmentally controlled prior to coating application.
- **Removal of Previous Layers:** All leveling and patching materials, coatings, and adhesives must be removed before installation.
- **Surface Profile:** Concrete substrate must be shot blasted or mechanically prepared to a minimum Concrete Surface Profile (CSP) of 3.
- **Technical Verification:** Consult Beynon Technical Department to confirm acceptable concrete preparation.
- **Final Cleaning:** Substrate must be vacuumed thoroughly to remove all dust and debris. Sweeping compounds should not be used.
- **Dew Point Conditions:** Concrete surface must be a minimum of 5°F (–15°C) above the dew point; do not apply when dew point atmosphere conditions exist.
- **Core Sampling:** For substrates with prior flooring failures, it is recommended to take core samples to identify the cause before proceeding.
- **Joints and Cracks:** Clean and/or route out non-moving joints and cracks before application. These areas can be filled using BEYPOXY™ 1000 combined with an appropriate thickening material. **Expansion joints should be handled using the detail shown below.** Allow BEYPOXY™ 1000 to cure before applying Beynon approved PU sealant.



BEYPOXY™ 1000 MOISTURE MITIGATION SYSTEM

APPROXIMATE SUGGESTED COVERAGE RATE

Moisture Vapor Rate (ASTM F1869)	Relative Humidity Test (ASTM F2170 or F2420)	Imperial Coverage Rate	Metric Coverage Rate
Up to 10 lbs / 1000 ft^2 / 24 hrs.	Up to 85%	130 ft^2/gal	3.18 m^2/L
Up to 15 lbs / 1000 ft^2 / 24 hrs.	85 - 90%	115 ft^2/gal	2.81 m^2/L
Up to 25 lbs / 1000 ft^2 / 24 hrs.	90 - 100%	90 ft^2/gal	2.20 m^2/L

APPLICATION GUIDELINES

- **Consult** with Beynon Technical Representative for detailed application instructions.
- **Adhesion Testing Recommended:** Test materials for compatibility and adhesion to BEYPOXY™ 1000 prior to application.
- **Temperature Requirements:** Both BEYPOXY™ 1000 material and the concrete substrate must be at a minimum of 50°F (10°C) at the time of mixing.
- **Mixing:**
  - Supplied as a pre-measured 2-component system; do not mix partial quantities. Do not alter mix ratio or thin down.
  - Pour the B-side component into the A-side container while mixing with a Jiffy-type mixer.
  - Stir at low speed (<400 rpm) for approximately 3 minutes, ensuring the bottom and sides of the pail are fully mixed.
  - Pour the fully mixed material onto the substrate immediately after mixing.
- **Application:**
  - Use a hard rubber squeegee for best results.
  - Coverage rate depends on surface texture, porosity, and moisture level.
  - Typical application yields 90-130 ft^2/gal (2.2-3.2 m^2/L), though this may vary by project.
  - Ensure that the material is applied at correct coverage rate by marking the area to be covered.
  - Suggested coverage rate: refer to the chart above for details.
- **Cure Time and Broadcast:**
  - Allow a minimum of 12 hours cure time before applying the next surfacing layer.
  - For enhanced adhesion, dry sand (#20 silica sand) may be broadcasted into the wet, freshly applied primer coat.

HANDLING PRECAUTIONS

- Refer to the Safety Data Sheet (SDS) before handling or using the product.
- Always wear recommended Personal Protective Equipment (PPE).
- Do not breathe vapors.
- Ensure adequate ventilation during application.
- Avoid contact with eyes, skin, and clothing.
- In cases of contact with skin, wash immediately with soap and water.
- In cases of contact with eyes, flush eyes with water for fifteen minutes and obtain prompt medical treatment.

STORAGE GUIDELINES

- Store in a cool, dry surroundings.
- Avoid prolonged storage.
- Store within temperature: 40-90°F (4.5-32°C).
- Shelf life: ~ 12 months in its original sealed container.

ISO 9001 & ISO 14001 CERTIFICATION

This product is manufactured in accordance with the **quality management system standards of ISO 9001,** demonstrating a commitment to consistent quality and customer satisfaction, while also adhering to the **environmental management system standards of ISO 14001,** signifying our dedication to minimizing our environmental impact throughout production process.

ISO 9001 CERTIFIED

ISO 14001 CERTIFIED

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