

## **CASTLE PME-901 TECHNICAL DATA SHEET**

### **Product Description (For use as primer, sealer, and cement and mortar intensifier)**

**Primer:** A water-based primer designed for use in conjunction with PME-202 waterproofing top coat systems. It penetrates the micropores of cementitious substrates, enhancing surface consolidation and promoting improved adhesion between the waterproofing layer and the substrate.

**Sealer:** When applied as a sealer, the product forms a bonded, hydrophobic film on cementitious substrates that reduces porosity and water absorption while maintaining strong adhesion for subsequent coatings or finishes.

**Cement and Mortar Intensifier:** The product may also be used as a cement and mortar intensifier. When incorporated into cementitious mixes, it acts as a polymer bonding agent that improves particle cohesion and enhances the integrity of cement slurries and mortar.

### **Product Characteristics**

#### **As a Primer**

- Penetrates concrete micropores
- Enhances adhesion of waterproofing systems
- Reduces dusting and surface laitance

#### **As a Sealer**

- Reduces porosity and water absorption
- Forms a hydrophobic surface film
- Improves substrate readiness for subsequent finishes

#### **As a Cement and Mortar Intensifier**

- Acts as a polymer bonding agent
- Improves cohesion of cement particles

## Product Information

- Appearance (wet): Translucent white, milky liquid
- Appearance (dry): Transparent to slightly opaque, shiny film
- Chemical base: Water-based
- Odour: Odourless
- Packaging: 1-gallon container

## Technical Properties (Typical Values) & Weathering/UV Resistance

- VOC: 1.08 % m/m | Test method: ASTM D6886-12 (Gas Chromatography)
- QUV Accelerated Weathering Tester (Q-Panel Co.) with UVA-340 lamps.
  - Results:
    - Gray Scale Rating: **5 (Very Good)**
    - No visible color change or surface degradation observed

## Application Mixtures

### As Primer or Sealer

- Dilution: Add 150% clean water by volume
- Mixing ratio: 1 gallon product : 1.5 gallons water

### As Cement and Mortar Intensifier

- Dilution: Add 200% clean water by volume
- Mixing ratio: 1 gallon product : 2 gallons water
- Use diluted mixture as gauging liquid for cement slurry, mortar, or plaster

## Application Instructions

- Substrate must be sound, clean, and free from dust, oil, grease, and loose particles
- Apply using brush or roller
- Apply evenly and generously

After drying, the surface should exhibit a shiny, translucent film.

If the dried surface appears matte, apply an additional coat to ensure adequate sealing and bonding.

### Coverage

- Approx. 25–35 m<sup>2</sup> per gallon
- Application: 1–2 coats
- Actual coverage depends on substrate porosity

### Storage

- Store at room temperature
- Keep containers tightly sealed
- Protect from direct sunlight
- Avoid storage in areas with excessive heat

### Disclaimer

The information provided is based on laboratory testing and practical experience under controlled conditions. Actual performance may vary depending on substrate condition, application method, and environmental factors. The user is responsible for determining the suitability of the product for the intended application.



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