

CASTLE PME-995 TECHNICAL DATA SHEET

Product Description

Castle Polymer Modified Cementitious Blend is an advanced waterproofing solution engineered with cutting-edge nanotechnology and polymer-cement chemistry to create a flexible, resilient, and durable protective coating. Combining the elasticity of polymers with the strength of cement, it forms a robust waterproof barrier capable of withstanding severe environmental conditions. Designed for both professionals and budget-conscious homeowners, it delivers premium waterproofing performance while remaining cost-effective, making it an ideal solution for long-lasting moisture protection without compromising quality

Product Characteristics

- Polymer-modified cementitious waterproofing system
- Enhanced with advanced nanotechnology formulation
- Flexible yet highly durable waterproof membrane
- Strong cementitious bond to concrete and masonry substrates
- Excellent resistance to water penetration and harsh weather
- Crack-bridging and resilient protective coating
- Easy mix application system
- Economical waterproofing solution with premium performance
- Suitable for horizontal and vertical concrete application

Product Information

- Appearance (wet): Translucent white, milky liquid
- Appearance mix with concrete (dry): Matte (color of concrete used)
- Chemical base: Water-based
- Odour: Odourless
- Packaging: 1-gallon container

Recommended Applications:

Suitable for waterproofing and protective coating on:

- Cistern tanks
- Septic tanks
- Fire tanks
- Wastewater treatment tanks
- Swimming pools
- Terraces, balconies, and ledges
- Toilets and baths
- Kitchens and light courts
- Basement retaining walls
- Firewalls
- Concrete roof decks

Coverage Rate:

- 4 kg / 4 liters covers approximately 3 m² at 3-coat application system
- Standard application: 3 coats

Curing Time:

- Minimum 48 hours before conducting water leak testing

Precautions:

- Compound begins setting once mixed; prepare only the amount required for immediate application.
- Maintain proper cement-to-PME-995 proportion based on area coverage.
- Continuously stir remaining mixture during application to prevent hardening in the container.

Application Mixtures

Mixing Ratio:

- 3 kg cement to PME-995 liquid component
- Mix slowly to form a uniform slurry consistency
- Stir thoroughly for 5–8 minutes before use

Application Instructions

1. Prepare the substrate by cleaning thoroughly and ensuring the surface is sound, and free of oil, debris, and standing water.
2. Pour 3 kg cement into PME-995 and slowly mix until a smooth slurry consistency is achieved. Stir for 5–8 minutes.
3. Begin application at the wall-floor termination and continue outward, ensuring full surface coverage with no missed areas.
4. Using a heavy-duty paint brush, apply the first coat evenly over the concrete substrate.
5. Allow each coat to dry to the touch for approximately 1 hour before applying the next coat.
6. Apply a total of 3 coats for standard waterproofing protection.
7. Compound the material per coat required to prevent hardening
8. Allow the waterproofed area to cure for at least 48 hours before conducting a water leak test.

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.

