



LUCERNAPRO

Technical Data Sheet of PMMA

Product Name: Lucerna PMMA

Product Introduction: Lucerna PMMA is a high-performance, cold-curing, filler-enhanced polymethyl methacrylate (PMMA) resin system specifically engineered for long-term waterproofing performance under demanding conditions. This advanced formulation incorporates optimized fillers to deliver superior mechanical strength, enhanced surface hardness, and outstanding durability—especially in environments exposed to constant heat and water immersion, such as Jacuzzis, hot tubs, and water tanks.

Technical Specifications:

- Appearance: Slightly opaque paste-like resin
- Density: ~1.40 g/cm³
- Viscosity: High (thixotropic with filler)
- Pot Life: 15-25 minutes (at 25°C with 1% BPO)
- Full Cure: 1-2 hours depending on temperature
- Shore Hardness (D): 75-80
- Water Resistance: Excellent (including hot immersion ~40°C)
- UV Stability: High
- Tensile Strength: ~20 MPa
- Elongation at Break: ~3-5%

Recommended Use:

- Hot tubs, Jacuzzis, water tanks, and rooftops
- Concrete, metal, or fiberglass surfaces
- As a standalone barrier or under polyurea/polyaspartic topcoats

Surface Preparation:

- Ensure substrate is clean, dry, and free of oil or dust
- For best results, apply over a compatible epoxy primer while tacky
- Sand glossy surfaces for improved adhesion

Mixing & Application:

- Mix thoroughly with 1% BPO powder by weight
- Apply using roller or brush at recommended thickness
- Do not apply below 5°C or above 35°C ambient temperature
- Recoat within 2-4 hours for multi-layer systems

Storage & Handling:

- Store in original, sealed containers in a cool, dry place
- Shelf life: 6-12 months at <25°C
- Flammable: Keep away from open flame and sparks
- Use gloves and protective eyewear during handling

Safety Notes:

- Contains methyl methacrylate monomer
- Strong odor - apply in well-ventilated area
- Avoid skin and eye contact - use PPE
- Dispose of unused material in accordance with local regulations