

# Sino-Sina Building Materials Co., Ltd

## Polyacrylic Emulsion Mortar - Anti-Corrosion Repair Mortar Technical Data Sheet

### Product Description

Polyacrylic Emulsion Mortar is a water-based, polymer-modified cementitious repair mortar designed for anti-corrosion applications. It incorporates acrylate and methacrylate emulsions with special additives for enhanced adhesion, flexibility, and durability in harsh environments.

### Applications

- Repairing and protecting concrete structures from corrosion, including bridges, marine environments, and industrial facilities.
- Waterproofing, anti-seepage, and moisture-proofing for interior and exterior walls.
- Surface leveling, defect repair (pits, cracks), and bonding in concrete restoration projects.
- Anti-carbonization and chemical resistance for exposed concrete surfaces.

### Features and Benefits

- Superior adhesion to steel and concrete substrates, even on damp surfaces.
- High mechanical strength with improved freeze-thaw stability and impact resistance.
- Excellent impermeability to water, chlorides, and sulfates for long-term corrosion protection.
- Flexible formulation reduces cracking; non-toxic and environmentally friendly.
- Easy mixing and application; self-leveling properties for smooth finishes.
- Increases durability and abrasion resistance of repaired areas.

### Technical Data

Typical properties (values may vary based on specific formulation).

## Physical and Mechanical Properties

Property	Typical Value
Compressive Strength (28 days)	40 MPa
Flexural Strength (28 days)	8 MPa
Bond Strength to Concrete	2.0 MPa
Density	1.8-2.0 g/cm <sup>3</sup>
Pot Life	30-60 minutes
Curing Time (Initial Set)	2-4 hours
Water Absorption	<5%
Chloride Ion Permeability	Low (ASTM C1202)

## Packaging and Storage

- Packaging: Available in 20kg or 25kg bags (powder) and 5kg containers (emulsion).
- Shelf Life: 12 months in unopened packaging; store in cool, dry conditions away from moisture.

## Application Instructions

1. Surface Preparation: Clean substrate, remove loose material, oil, and contaminants; dampen but avoid standing water.
2. Mixing: Combine powder with emulsion per ratio (typically 4:1 powder:emulsion); mix to uniform consistency.
3. Application: Trowel or spray apply in layers up to 50mm thick; for thicker builds, apply in multiple coats.
4. Curing: Protect from direct sun and wind; cure for 7 days with moist conditions.

## Safety Precautions

Wear protective gloves, eyewear, and clothing. Avoid inhalation of dust. In case of contact, rinse with water. Refer to SDS for details.

## Contact Information

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