



# Anhui Surmount New Materials Co., Ltd.

## SMT Epoxy Water Barrier Primer

### Product Introduction

This product is a two component, water based epoxy system. It is primarily used as a bonding primer for new and old cement based materials. It can also serve as a surface sealer for various materials or as an interface treatment agent between different substrates. When mixed with cement based materials, it significantly enhances adhesion and compressive strength. It is nonflammable and odorless. The 1:1 mixing ratio makes it easy to use. It has high tolerance to substrate conditions and can be diluted and cleaned with water only.

### Performance Features

- Low VOC content, compliant with environmental regulations;
- Forms a dense, porefree film after curing, effectively blocking moisture and oxygen penetration;
- Strong adhesion to damp substrates;
- High mechanical strength and durability.

### Scope of Application

- Specialized primer for waterproofing and moisture proofing against negative water pressure;
- Can be used for interface treatment on new and old concrete;
- Suitable for use on damp substrates.

### Usage Limitations

- Do not apply at temperatures below 10°C or above 35°C;
- Not suitable for airtight spaces, and must not be used in strong drafts (>1 m/s);
- Do not apply on surfaces with standing water, leakage, or continuous rising damp;
- Not intended for areas subject to prolonged immersion, chemical exposure (acids, alkalis, salt solutions), or hot water environments exceeding 80°C;
- Cannot be used alone under conditions of low temperature & high humidity, dynamic water pressure, high temperature immersion, or on smooth, nonporous substrates;
- Not suitable for use on moving or expansion cracks.



# Anhui Surmount New Materials Co., Ltd.

## Physical Properties (at 23°C, 55% RH)

| Test Item                             | Technical Data |
|---------------------------------------|----------------|
| Appearance                            | Milky white    |
| Density (Part A) (g/cm <sup>3</sup> ) | 0.99           |
| Density (Part B) (g/cm <sup>3</sup> ) | 1.03           |
| Working Time (h)                      | 1              |
| Recoat Time (h)                       | 4-6            |
| Full Cure Time (d)                    | 7              |
| Finish Appearance                     | Matte          |
| Coverage Rate (g/m <sup>2</sup> )     | 100-200        |

## Application Instructions

### 1. Substrate Preparation:

- The substrate must be sound, level, clean, and free of loose particles, contaminants, etc. Holes and cracks must be repaired. The substrate must have adequate load bearing capacity. If the substrate is too dry, dampen it by spraying with clean water.

### 2. Application Method:

- Stir Part A and Part B separately before mixing. Then, mix Part B (Base) and Part A (Hardener) thoroughly in a 1:1 volume ratio using a mechanical stirrer until fully uniform.
- Only mix the amount needed for immediate use, and avoid incorporating excessive air bubbles. Appropriate amounts of clean water can be added to improve substrate penetration. For dense substrates, add no more than 10% water; for general absorbent substrates, 5% is sufficient.
- Apply by brush, roller, or low pressure spray. Application temperature should be between 10-35°C. Do not apply when relative humidity exceeds 85%.

### 3. Precautions

- Use within the product's shelf life. Do not use expired product.
- Strictly follow the standard application procedures.
- The product releases trace amounts of chemical substances during curing. Ensure adequate ventilation in the work area. It is nontoxic after curing.
- Avoid direct contact with skin and eyes. Do not swallow.



# Anhui Surmount New Materials Co., Ltd.

-Keep out of reach of children.

## **Storage & Transportation**

This product is classified as nonhazardous. Shelf life is 24 months (unopened). Store in a cool, dry, and well ventilated place, away from freezing. Protect from extreme cold, direct sunlight, and rain during transportation.

## **Packaging**

20 kg/set (Part A: 10 kg + Part B: 10 kg). Custom packaging is also available upon request.

-----  
-----

This instruction manual is for reference purposes only and does not carry any warranty. Please test its suitability beforehand.