

Sino-Sina Building Materials Co., Ltd

Flexible Cementitious Waterproofing Slurry

Technical Data Sheet

1. Product Overview

ZRETE[®] Flexible Cementitious Waterproofing Slurry is a two-component, high-performance waterproof coating system. It combines polymer emulsions with specially formulated cementitious powders to form a dense, elastic, and highly adhesive membrane. The product offers excellent crack-bridging, impermeability, and weather resistance across various types.

Available Types:

- Type I Standard Flex Type
- Type II Enhanced Flex & Crack Resistance
- Type III High Adhesion & Durability

Compliance Standards:

- GB/T 23445-2009: Polymer Cement Waterproof Coating
- GB 55030-2022: Technical Code for Construction Waterproofing

2. Key Features

Type	Main Characteristics
Type I	Eco-friendly, high elongation, good flexibility at low temperature
Type II	Superior crack resistance, elongation, anti-aging, excellent overall performance
Type III	Strong adhesion, high durability, reliable waterproof protection

3. Recommended Applications

Type	Application Areas
Type I	Ideal for high-movement areas such as balconies, floors, rooftops, kitchens
Type II	Suitable for basements, tunnels, reservoirs, subways, water features, and marine
Type III	Best for kitchens, bathrooms, basements, ports, underground structures

4. Technical Specifications

Property	Type I	Type II	Type III
Solids Content (%)	70	70	70
Tensile Strength (MPa)	1.2	1.8	1.8
- Heat-treated Retention (%)	80	80	80
- Alkali-treated Retention (%)	60	70	70
- Water Immersion Retention (%)	60	70	70
- UV Resistance Retention (%)	80	80	-
Elongation at Break (%)	200	80	300
- Heat-treated	150	65	200
- Alkali-treated	150	65	200
- Water-immersed	150	65	200
- UV-treated	150	65	-
Low Temperature Flexibility	No cracks @ 10°C	-	-
Adhesion Strength (MPa)	0.5	0.7	1.0
- Wet Substrate	0.5	0.7	1.0
- Alkali-treated	0.5	0.7	1.0
- Water Immersion	0.5	0.7	1.0
Impermeability (0.3 MPa, 30min)	Impermeable	Impermeable	Impermeable
Anti-Pressure (Backwater, MPa)	-	0.6	0.8

5. Extended Performance Grades

Product Variant	Description	Application
A300 High-Elastic Flexible Cementitious Waterproofing Slurry	Crack elongation >300%, ideal for dynamic surfaces, bridges, old concrete	Cracks, repairs, movement joints, parking decks, expansion joints
Colored Flexible Cementitious Waterproofing Slurry	Pigmented system, customizable color	Decorative surfaces, exterior exposed waterproofing
Anti-Abrasion Type (Low Temperature 20řC)	Withstands 20řC; abrasion-resistant membrane; cures under 72h underwater	Underground waterproofing, tunnel linings, winter projects
High Transparency Flexible Slurry	Transparent finish, bonding strength >2.5 MPa, aesthetic finish	Tiled surfaces, decorative wet areas, swimming pools
Bio-Based Flexible Cementitious Waterproofing Slurry	Uses plant-oil polymer dispersions, VOC-free, excellent eco-resilience	Green buildings, eco-certified projects, indoor sensitive environments

6. Packaging & Storage

- Packaging: 20 kg/set or customized
- Storage: Keep in a cool, dry area; shelf life: 6 months unopened
- Transport: Avoid moisture, freezing, and direct sunlight

7. Application Method

- Mixing Ratio: Part A (liquid) : Part B (powder) = As supplied
- Tools: Brush, roller, or sprayer
- Curing Time: Touch dry: 4 hours @ 25řC; Full cure: 7 days
- Coating Thickness: Recommended 1.52.0 mm (in 23 coats)
- Coverage: 1.52.0 kg/mř depending on surface condition

Contact Information

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