

Sino-Sina Building Materials Co., Ltd

JGN804A Epoxy Injection Resin Technical Data Sheet

Product Description

JGN804A is an advanced, ultra-low-viscosity two-component epoxy injection resin for precision crack injection. Optimized for high-strength and deep penetration, it excels in sealing narrow cracks in concrete, stone, and metal structures, offering excellent resistance in harsh environments like marine or industrial settings.

Applications

- Fine crack repair in bridges, tunnels, and foundations.
- Anti-corrosion and waterproofing treatments.
- Gravity or pressure injection in vertical and overhead positions.

Features and Benefits

- Extremely low viscosity for maximum flow into hairline cracks.
- Superior tensile, shear, bending, and bonding strengths.
- Outstanding wet bonding and anti-seepage performance.
- High penetration ratio for comprehensive sealing.
- Solvent-free, non-toxic formula with enhanced durability.

Technical Data

The following table lists the key performance indicators, including required specifications and actual test results (typical values).

Property	Required	Actual
Initial Viscosity (mPa·s)	<100	86
Compressive Strength (MPa)	>64	98
Tensile Strength (MPa)	>40	61
Tensile Shear Strength (MPa)	/	25.9
Bending Strength (MPa)	/	86
Dry Bonding Strength (MPa)	≥ 4.0	6.1
Wet Bonding Strength (MPa)	≥ 2.4	4.8
Anti-seepage Pressure (MPa)	/	1.5
Penetration Pressure Ratio (%)	/	750

Mixing Instructions

- Mix ratio: 3:1 by weight or volume (Component A : Component B).
- Mechanically stir for 4-5 minutes until streak-free.

Application Method

1. Thoroughly clean the crack area, removing oils and loose material.
2. Seal the surface with epoxy paste to maintain pressure.
3. Install ports every 3-6 inches for fine cracks.
4. Inject using equipment, starting low and increasing pressure as required.
5. Seal ports sequentially as resin appears.
6. After curing, verify seal integrity and finish the surface.

Curing Time

- Pot life: 15-30 minutes at 25°C.
- Initial cure: 8-12 hours.
- Full cure: 3-5 days.

Packaging

Available in 250 g, 1 kg, or 5 kg kits.

Storage and Shelf Life

Store protected from sunlight at 5-35°C. Shelf life: 24 months.

Safety Precautions

- Handle with gloves and protective gear.
- Ventilate work area; absorb spills with inert materials.
- Seek medical attention for ingestion or prolonged exposure.
- Comply with local safety and environmental standards.

Contact Information

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