

# HP-2 Epoxy Injection Resin - Product Manual

## (English)

### Overview

HP-2 is a medium-viscosity epoxy injection resin with high strength, providing precise control with compressive strength over 70 MPa, excellent for foundation soil stabilization, tunnel void repairs, and water-stopping in concrete structures.

### Applications

- Foundation soil stabilization to prevent erosion and settlement.
- Crack filling and water-stopping in hydraulic dams and reservoirs.
- Void filling in tunnels, subways, and public infrastructure.
- Repair of temperature cracks in large concrete elements after pouring.
- Structural reinforcement in bridges against water and load damage.

### Key Features

1. Medium viscosity under 200 mPa.s for controlled application, with compressive strength over 70 MPa.
2. High tensile strength above 8.0 MPa at this viscosity, ideal for tunnel void filling.
3. Wet bond exceeding 2.5 MPa, effective in damp foundation stabilization.
4. Elongation over 400% with balanced viscosity, flexible for temperature crack repairs.

### Product Details

The HP-2 variant offers performance tailored for crack applications with high strength at medium viscosity.

## Performance Specifications (Compliant with JC/T 1041-2007)

Item	Index
Density (g/cm <sup>3</sup> )	>1.00
Viscosity (mPa.s)	<200
Operable Time (min)	>30
Compressive Strength (MPa)	>70
Tensile Strength (MPa)	>8.0
Bending Strength (MPa)	>15
Dry Bond Strength (MPa)	>4.0
Wet Bond Strength (MPa)	>2.5
Tensile Shear Strength (MPa)	>1.2
Elongation at Break (%)	>400

## Packaging & Storage

- Packaging: Standard kits with Component A (9 kg/barrel) and B (3 kg/barrel); mixing ratio A:B = 3:1 by weight. - Storage: Cool, dry place; shelf life 12 months.

## Construction Guidelines

1. Prepare voids for HP-2 injection in foundation soil stabilization, ensuring high-strength results. 2. Mix and apply to dam cracks, utilizing its medium viscosity for accuracy. 3. For tunnel voids, inject and cure 24-48 hours for full strength. 4. Use on temperature cracks where its elongation prevents re-cracking. 5. In wet conditions, leverage high wet bond for effective subway sealing.

## Contact Information

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