TN-PU14

HYDROPHOBIC POLYURETHANE RESIN



PRODUCT CODE: 1326-C

INSTRUCTIONS

El **Polyurethane Grouting Material** is a single-component hydrophobic compound, engineered through the reaction of a polyol with isocyanate. This material reacts rapidly upon contact with water, solidifying and expanding to achieve immediate crack sealing. Following the reaction, it transforms into an elastic colloid that increases in volume to generate an insoluble foam. This process not only provides permanent waterproofing and leak obstruction but also delivers a significant structural reinforcement effect.

The ideal solution for high-demand projects, such as:

- Subway tunnels and sewage systems.
- Water conservation and hydroelectric power projects.
- Underground parking garages and other waterproofing engineering works.

CORE ADVANTAGES

1. High Expansion Ratio
The product reacts upon contact with water, achieving an expansion ratio of up to 25 times its initial volume. It features excellent hydro-transmission properties and superior chemical stability, ensuring efficient void filling.
2. High-Strength Structural Consolidation
The chemical reaction activates rapidly in the presence of water, generating significant expansion pressure. This forces the grout into the deepest cracks, where it polymerizes to form a tough, high-resistance consolidation body.
3 Superior Adhesion Performance
Exhibits exceptional bonding properties on both concrete substrates and various construction materials, ensuring a hermetic and long-lasting seal.
4. Environmental Profile and Safety
Formulated under low environmental impact standards and classified as non-toxic. Its composition is safe for application in diverse construction environments and confined spaces.

TECHNICAL SPECIFICATIONS

Property	Value
Appearance	Brown transparent viscous liquid
Density	≥1.05 g/cm^3
Viscosity (25° C)	≤1000 mPa·s
Setting Time	≤800 s
Expansion Ratio	≥2000%
Compressive Strength	≥15 MPa

Additional Information

- **Packaging: 15 L container.**
- **Applications: Widely used in civil engineering, metro tunnels, municipal works, roads, mining, hydroelectric facilities, and petrochemical and marine engineering.**

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