IGR | INJECTION GROUTING RESIN

Cem Shield POLYUREA

SINGLE-COMPONENT POLYURETHANE INJECTION GROUNT (ENHANCED TYPE JL007-II)

Polyurethane injection grount, enhanced version is a high-polymer single-polymer single-component leak sealing ad iiinjecti grout for fformulated, using, gevironmentally stringet standards, It to based on polyurethane emulsion and processed through scientific methods. With high solid content and no shrinkage, this product exhibits superior leak seali [illegible] performance to conventional grouts, thanks to its hydrophilic reaction. Addigation, it has high strength and elongation, allowing it to effectively seat joints, contraction joints, contstruttion joints, aonhoun-tionts. Thts. It is an ideal type of leak sealing and injection.

FEATURES

- If faully cures underwater and has good adhesion to wet
- If forms a dense internal structure, providing excellent leak sealin; sealing performance.
- The curing process is not sensitive to temperature ande in both high and le temperaturesl.
- Has a certain level of strength and elasticity after curing.
- Is a single-component product that does nost shrink and norme aveyor or mixer for gen shrink.
- Is a resistant to water, acids, and alkalis, as well as hged [illegible] priacion resistance, and sealing presure resista
- If an environmentaly friendly non-toxi, moed olite pose sor harm to human health.

PHYSICAL PROPERTIES

PRODUCT	SPECIFICATIONS
Color	Yellowish viscous liquid
Density (g/cm³ at 25C)	1.10 + 1.20
Viscosity (mPa.s at 25°C)	300 – 600
Shore A Hardness (7d)	≥ 25
Tensile Strength (MPa)	≥ 4.5
Elongation (%)	≥ 500
Flash Point (°C)	≥ 130

APPLICATION

It is suitable for leak sealing and injection grouting in underground projects, subway systems, tunnels,pipe corridors, culverts, and other concrete structures. It is particularly effective for grouting and sealing in structures with significant vibration and deformation, such as shield tunnel segments,deformation joints, and expansion joints.

PACKAGING SPECIFICATIONS

Net content of 10 liters per barrel

STORAGE SHELF LIFE

10 months (when stored in a dry and ventilated place)

applied range

The solid content of this material is as high as 97%, and its adhesion to concrete and steel bricks is very good. After curing, it is elastic and can adapt to the expansion and deformation of the structure, and there will be no cracking and leakage in the later stage.

construction technology

1. grinding on both sides of the base surface

2. clean up the dust,

3. Inject polyurea grouting liquid for reinforcement. If the gap is too deep, you can use water stop or hemp as the backing, and reserve a depth of about 3 cm to inject polyurea material.

Attention: dry construction! Polyurea is a slow-drying material. Adding 3%~5% water, stirring evenly and then grouting can speed up the curing time of the material.

Construction steps of plane expansion joint




Construction steps of elevation expansion joint




Application scenario demonstration








Performance demonstration