Sino-Sina Building Materials Co., Ltd
JGN807 High Thixotropy CFRP Strip Adhesive Technical Data Sheet

Product Description

JGN807 is a two-component modified epoxy adhesive developed for dynamic load environments. It provides strong adhesion, long pot life, and rapid strength development, ideal for bonding CFRP strips to concrete.

Applications

Primarily for bonding CFRP strips to concrete to strengthen structures, especially under vibration or dynamic loads.

Features and Benefits

- Curing unaffected by vibrations; superior fatigue strength withstands 2Œ10 dynamic load cycles.

- Excellent toughness, impact peel strength, and thixotropy; no sagging in vibrating conditions.

- High resistance to damp, heat, aging, and freeze-thaw cycles.

- Meets or exceeds GB50728-2011 standards; safe, non-toxic, no harmful substances.

- No volatile solvents or shrinkage after curing.

Technical Data

Conforms to Category I Grade A Adhesive per GB50278-2011.

Performance Properties

Technical Standard	Unit	Performance Requirements
Tensile Strength	MPa	35
Tensile Elastic Modulus	MPa	3.5Œ10ş
Elongation	%	1.5
Bending Strength	MPa	50, no brittle damage
Compressive Strength	MPa	70
Steel-Steel Tensile Shear Strength	MPa	18
Steel-Steel T Impact Stripping Length	mm	10
Steel-Steel Butt Bond Tensile Strength	MPa	40
Tensile Bond Strength with Concrete	MPa	2.5, cohesive failure of concrete
Non-Volatile Content	%	99
Decrease Rate of Steel-Steel Tensile Shear Strength after Damping, Heating, and Aging for 90 Days	%	10
Decrease Rate of Steel-Steel Tensile Shear Strength after 50 Freeze-Thaw Cycles	%	10

Packaging and Storage

- Packaging: Component A: 15kg/drum; Component B: 5kg/drum.

- Shelf Life: 12 months in a cool, dry place.

Application Instructions

1. Surface Treatment: Remove dirt, grease, and coverings from concrete until solid base is exposed; ensure flatness; clean with vacuum or acetone.

2. Apply Adhesive: Spread 4-5mm on concrete base; 1-2mm on CFRP strip (3mm in center, min 2mm gap overall).

3. Bond: Press CFRP strip into position; roll along fiber direction to compact and overflow resin; ensure no voids.

4. For Multiple Strips: Maintain 5mm gaps; clean excess adhesive and edges.

Safety Precautions

Wear protective gear. Avoid skin/eye contact. Store away from heat.

Contact Information

Website: www.zrete.com
Email: info@wcrete.com
Phone: +86 15373872353