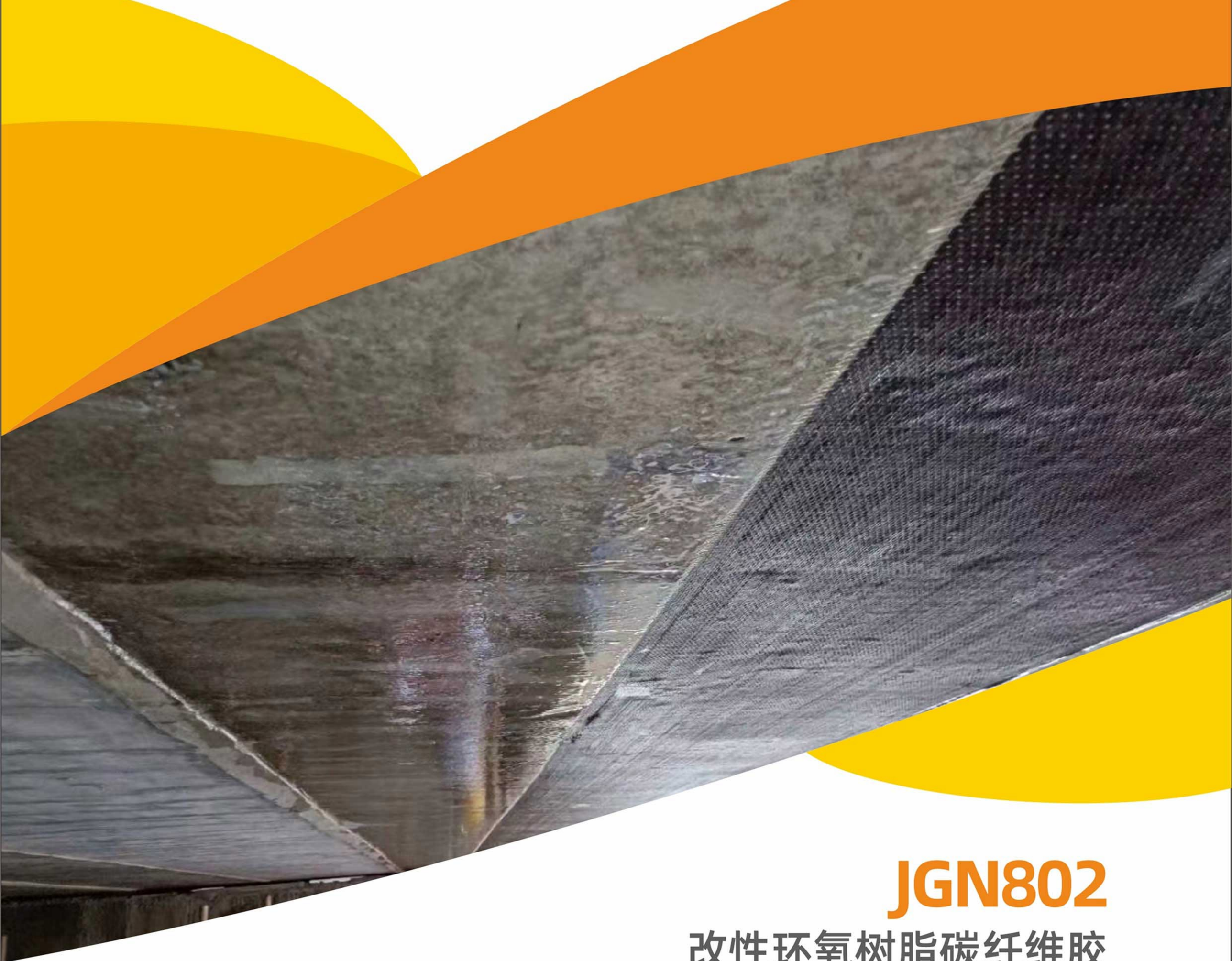
SINO-SINA
中德新亚®

CREATE A TRUSTWORTHY BRAND OF CHINA
BUILDING MATERIALS



JGN802

改性环氧树脂碳纤维胶

MODIFIED EPOXY CARBON FIBER GLUE

Mainly used in the process of building reinforcement and renovation of component surfaces such as concrete, brick, rock and other substrates and carbon fiber, glass fiber and other fibers sheet impregnation paste.

SINO-SINA 中德新亚®

CREATE A TRUSTWORTHY BRAND OF CHINA
BUILDING MATERIALS

JGN802 series carbon fiber adhesive is AB two-component modified epoxy adhesive, which is special adhesive for pasting carbon fiber sheets and widely used in structural reinforcement projects.

I.Product features

◆ It has good wettability and permeability, and forms conforming materials with carbon fiber sheets with very strong mechanical properties and excellent durability performance. The adhesive also has good thixotropic properties and good suspension, making the vertical surface of the construction of the flow is small.
◆ The cured adhesive layer has excellent physical and mechanical properties and strong performance.
◆Curing at room temperature, no volatile solvents, high bond strength.
◆ Good aging resistance and medium resistance (acid, alkali).
◆Wide proportion of adhesive, different ambient temperatures can be adjusted to the right amount of easy to use, easy to operate on site.

II.Scope of application

◆ It is used for coating the bottom layer of reinforced member surface.
◆ It is used for repairing and leveling the defects on the surface of reinforcement members.
◆ It is used for impregnating and pasting carbon fiber, glass fiber and other fiber sheets on the surface of reinforcement members.

III.Performance index

GB50728-2011《工程结构加固材料安全性鉴定技术规范》1类A级胶

Test item		Technical index
Colloidal properties	Tensile Strength(MPa)	≥38
	Modulus of elasticity in tension(MPa)	≥2.4x10^3
	Elongation(%)	≥1.5
	Flexural Strength(MPa)	≥50
		And shall not be rupture-like destruction
	Compressive strength(MPa)	≥70
Bonding capacity	Standard value of steel-to-steel tensile shear strength(MPa)	≥14
	Steel-to-steel butt joint tensile strength(MPa)	≥40
	Steel-to-steel T-impact stripping length(mm)	≤20
	Steel to C45 concrete positive tensile bond strength (MPa)	≥2.5, and for concrete cohesion damage
	Nonvolatile matter content (solid content)(%)	≥99

IV.Construction process

①Clean up the surface of the substrate: sand the bonding surface to remove the surface mortar and loose layer, reveal the new surface and blow away the dust with an air compressor, and then use acetone to remove the dirt.
② paint primer: according to the proportion of weighing the required amount of glue, fully mixed, with a roller or brush will be mixed primer evenly spread on the concrete surface. Wait until the primer surface dry (usually 2 hours) and immediately proceed to the next step of the construction process.
③ Base surface leveling: Weigh the required amount of adhesive according to the ratio, and mix it thoroughly. Mixed repair adhesive with a scraper on the surface of defective concrete components into the repair and leveling, to be cured gel, immediately after the next step in the construction process.
④Paste carbon fiber sheet: Cut carbon fiber cloth according to the design requirements. Weigh the required amount of adhesive according to the ratio and mix it thoroughly. Apply the mixed impregnation adhesive evenly to the part to be pasted and paste the carbon fiber cloth. Apply more adhesive at the overlap and corners. Use a smooth roller to roll in the direction of the fiber several times. Squeeze out the air bubbles to make JGN802 modified epoxy resin fully impregnate the carbon fiber cloth, do not damage the carbon fiber cloth when rolling, repeat the above steps for multi-layer paste, and evenly apply a layer of impregnation adhesive on the surface of the last layer of carbon fiber cloth.

Reference dosage: JGN802 modified epoxy resin carbon fiber adhesive: 0.6-0.8kg/m
Normal temperature condition: A:B=2:1 by weight.

V.Packaging and storage

Packed in barrels, A component is:8kg/drum, B component is:4kg/drum.
Store in ventilated dry place, shelf life 12 months.