

TSA PURE EPOXY CHEMICAL ANCHOR



Product Description

Injectable chemical anchor is a fast curing, multi-purpose, two components modified epoxy resin anchor system for threaded bars and reinforcing bars in both cracked and uncracked concrete.

Packing

Packing	Qty/Ctn	Ctn/Pallet
390ml/cartridge	30 pcs	50ctns/plt

Operable time & Curing Time

Ambient Temperature °C	Operable time (min)	Curing Time
-5	60 min	72 h
0	45 min	48 h
10	30 min	24 h
20	15 min	12 h
≥30	20 min	6 h

Technical Data

Performance Parameters

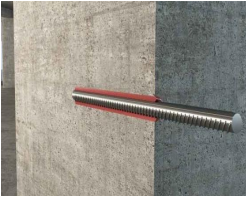
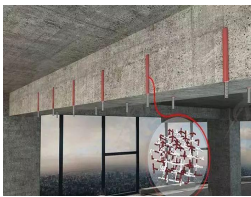
Appearance A Part (Epoxy)	White paste
Appearance B Part (Hardener)	Red or black paste
Viscosity of mixture	18-22 pa·s
Density after curing	1.5±0.1 g/cm ³

Mixture ratio (weight ratio)

3:1

Performance Indexes

Colloidal performance	Tensile strength (ASTM D638)	≥55Mpa
	Tensile modulus (ASTM D638)	≥3500Mpa
	Elongation at break (ASTM D638)	≥1.7%
	Flexural strength (ASTM D790)	≥70Mpa
	Compressive strength (ASTM D695)	≥82Mpa
	Thixotropy index	≥4.0
	Sagging mobility (25°C)	≤2.0mm
Adhesion performance	Distortion temperature	≥65°C
	Steel-steel tensile anti-shear strength	≥16Mpa
	Under the constraint drawing condition, ribbed steel bars and C30, Φ25, L=150mm tensile strength	≥11Mpa
	Boding strength with concrete C60, Φ25, L=125mm	≥17Mpa
Non-volatile matter content (solid content)	Steel-steel T impact stripping length	≤25mm
	Wet and heat ageing	Compared with the short-term results at room temperature, the decrease rate of shear strength: ≤12%

Long-term performance	Heat aging resistance	Compared with the short-term results at same temperature 10min, the decrease rate of shear strength: $\leq 5\%$	<div>Acid medium</div> <div>Concrete damage, and shall not have cracks or degumming</div>
	Freezing and thawing	Compared with room temperature, short-term results, the shear strength decrease rate is not greater than 5%	
	Fatigue stress	After 2×10^6 times continuous sine wave fatigue loads, specimen does not destroy	
	Resistance to stress	Steel - steel tensile shear specimens does not destroy, and creep deformation value is less than 0.4 mm	
Resistance to corrosion medium	Resistance to salt	Compared with the control group, the strength decrease rate: $\leq 5\%$, and shall not have cracks or come unglued	<div>   </div>
	Alkaline medium	Compared with the control group, the strength does not decrease, and as the concrete damage, and shall not have cracks or come unglued	

Special Characteristics

- Modified epoxy resin, no styrene
- High strength & modulus, good toughness
- Aging resistance & thermal resistance
- Moisture tolerant, stable in a humid environment
- Acid & alkali resistance
- Seismic resistance, no expansion forces
- Excellent thixotropy, suitable for side and top anchoring
- Binocular straight mixed package, with special electric caulking gun and static mixer

Typical application

- Planting steel bars and bolts in concrete structure
- Curtain wall & stone dry hanging brackets' reinforcement
- Building structure reinforcement&framework anchoring
- Various equipments' basic fixation
- Steel structures and concrete structures anchoring connection
- Reinforcement for highway, bridges, water conservancy projects rebuilding
- Reinforcement for advertisement boards,the noise barriers&barricades

Safety & Storage

- When stored correctly, the shelf life will be at least 12 months from the date of manufacture.
- Cartridges should be stored in their original packaging, the correct way up, in cool conditions (+50°F to +77°F) and out of direct sunlight