



AB500 - Concrete Anchor Epoxy

AnchorBond500 concrete anchoring epoxy is mainly use for post installation of anchor bolt that includes epoxy agent with adhesive to bond or secure any load to a concrete using rebar, bolts, rods and dowell with a very high and ultimate strength of bonding. Concrete epoxy anchoring solution is best for heavy load, vibration and harsh environment condition.

Advantages and Benefits

- ✓ Performance equivalent to top leading brands for injectable epoxy
- ✓ High Performance / High strength / Strong Cohesion / Good Toughness
- ✓ Excellent thixotropy - Can be used for side and overhead fixings
- ✓ Pure modified epoxy resin, no styrene
- ✓ Aging resistance / Thermal and Heat resistance / Moisture resistance
- ✓ Acid & alkali resistance / Seismic resistance, no expansion forces
- ✓ Stable in humid and damp environment Can be used for cracked and uncracked concrete
- ✓ Adjustable range of embedment depths
- ✓ Can be used for anchoring to hollow block

Application Range

- ✓ Installation and fixing of steel bars and bolts in concrete structure
- ✓ Anchoring structural connection for slab, columns, beams, and other steel products.
- ✓ Fix load using threaded rod to serve as anchor bolt
- ✓ Reinforcement for curtain wall & bracket fixings
- ✓ Building structure reinforcement & framework anchoring
- ✓ Retrofitting solution for structural buildings and other structural anchoring requirements.
- ✓ Fastening solution for various machine equipments
- ✓ Reinforcement solution for highways, bridges, water conservancy projects and the likes



AnchorBond 500 Concrete Epoxy





Curing Guide

Ambient temperature (°C)	-5	0	15	≥25
Operable time (min)	120	60	45	25
Curing time (h)	72	48	24	12

Technical Standard

Tensile modulus (ASTM D638)	≥3500Mpa
Viscosity of Mixture	18-22Pa·S
Density after curing	1.5±0.1g/cm ³
Splitting tensile strength	≥8.5MPa
Bending strength	≥50MPa
Compressive strength	≥60MPa
Thixotropy index	≥4.0
Distortion temperature	≥65°C
Steel tensile shear strength	≥16MPa
C30,φ25, L=150mm condition tensile strength	≥11MPa
C30,φ25, L=125mm condition bonding strength	≥17MPa
Steel-steel T impact stripping length	≤25mm



Anchoring Load Capacity to C30 Concrete

Diameter Φ(mm)	Hole Diameter Φ(mm)	Anchoring Strength Reference (kN)																			
		23	24	24	25																
10	13																				
12	16			35	36	36	37														
14	18				43	45	49	50	51												
16	20							58	60	64	67	68									
18	22								72	80	82	85	85								
20	25									92	95	95	100	105							
22	28										110	126	126	126	126						
25	32											140	150	160	160	162	165				
28	35												170	180	200	200	205	205			
32	40														240	245	245	260	270		
40	50																310	370	405	420	422
Anchoring Depth		80	90	100	110	120	135	150	160	180	200	220	240	250	270	305	350	400	440		