

**HORSE**

# HM-500

**HIGH PERFORMANCE  
INJECTABLE EPOXY  
ANCHOR ADHESIVE**

Advanced nano-tech  
epoxy anchoring for  
unmatched strength,  
precision, and reliability  
in every fix

Official Distributor: **Q-MAX**



# HM-500

## HIGH PERFORMANCE INJECTABLE EPOXY ANCHOR ADHESIVE

HM-500 High Performance Injectable Epoxy Anchor Non-Sag Adhesive is a premium-grade, two-component modified epoxy resin system designed for precision anchoring applications. Packaged in a high-quality dual cartridge with a static mixing nozzle, it ensures consistent and efficient mixing of Part A and Part B during application.

Formulated for superior bonding strength and versatility using advanced nano technology for multi-dimensional mesh structure, HM-500 delivers high modulus performance and exceptional load-bearing capacity. Its moisture-tolerant formula makes it ideal for both vertical and overhead installations, providing reliable anchoring even in damp conditions. Engineered for use with a standard dispenser gun, HM-500 is the professional's choice for structural rebar anchoring, dowel installations, and other critical fixing applications.



*Complies with ASTM C881 (Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete) and AASHTO M203 (Standard Specification for Steel Strand, Uncoated Seven-Wire for Concrete Reinforcement)*

### Product Specification

<b>Composition</b>	Two-part (A: B, 3: 1) well mixed Epoxy Adhesive
<b>Packaging</b>	390ML/Cartridge
<b>Shelf life</b>	12 months (unopened, stored as recommended)
<b>Storage conditions</b>	Store in a dry, shaded area between 5°C to 30°C
<b>Appearance</b>	A (main agent) white paste, B (curing agent) red or black paste



### Usage

HM-500 Injectable Epoxy Adhesive is engineered for a wide range of structural and industrial anchoring applications, providing secure and durable bonding in demanding environments. Typical uses include:

- Anchoring of steel bars, threaded rods, and bolts into existing concrete structures
- Installation and reinforcement of curtain wall systems and stone dry-hanging brackets
- Structural retrofitting and rebar planting in building frameworks and concrete elements
- Base fixation for various machinery, equipment, and industrial installations
- Anchoring connections between steel structures and concrete members in composite designs
- Reinforcement and rehabilitation work in infrastructure projects such as highways, bridges, and water conservancy structures
- Fixing and strengthening of advertisement boards, sound barriers, and safety barricades









## Technical Specification

Property	Test Method /Condition	Curing Time /Temp	Strength	Remarks
Tensile Strength	ASTM D638	-	≥55 MPa	Structural load resistance
Elongation at Break	ASTM D638	-	1.5%	Indicates material ductility
Compressive Strength	ASTM D695	-	81.3 MPa	High strength for anchoring
Bond Strength (Dry Concrete)	ASTM C882	7 days	≥17 MPa	Excellent adhesion in dry conditions
Bond Strength (Wet Concrete)	ASTM C882	7 days	≥17 MPa	Effective even with moisture
Slant Shear Strength	ASTM C882	7 days	21.3 MPa	Strong bond with hardened concrete
Shear Strength (Steel-to-Steel)	ASTM D1002	-	≥16 MPa	High steel bonding capability
Pull-out Load (D16 rebar, 10d embedment)	ASTM E488	-	53.6 kN	Reliable load-bearing anchorage
Gel Time	ASTM C881	25°C	9 minutes	Workability window
Heat Deflection Temperature	ASTM D648	-	72.4°C	Thermal stability
Water Absorption (24h)	ASTM D570	24h immersion	0.20%	Low moisture uptake
Viscosity	ASTM D2393	@ 25°C	18,000 – 22,000 mPa•s	Falls within Grade 2 2000–300,000 range
Temperature Tolerance	Internal test	Below 4°C	Maintains bonding strength	Complies with Class C
ASTM C881 Classification	ASTM C881	-	Type IV, Grade 2, Class C	Also meets AASHTO M203

*Test Report Source: Final Report: Evaluation of Mechanical Properties of a New CFRP System for Structural Rehabilitation, Based on Experimental Tests, Inst. #30821 by Syracuse University of Engineering and Computer Science.*

## Application Instruction

Application Instructions for HM-500 Epoxy Anchor Adhesive

	<b>1 Drill Hole</b> Use a rotary hammer to drill a clean hole sized for the rebar or anchor		<b>2 Clean Hole</b> Remove dust with a high-pressure air blower		<b>3 Brush Hole</b> Scrub the hole walls with a steel wire brush, then blow out debris again
	<b>4 Inject Adhesive</b> Dispense HM-500 into the hole, filling from the bottom up to avoid air pockets		<b>5 Insert Anchor</b> Insert the rebar or bolt immediately, twisting slightly for full coverage		<b>6 Cure</b> Let the adhesive cure as per temperature guidelines before loading

Note: For special site conditions or guidance, please contact the supplier.

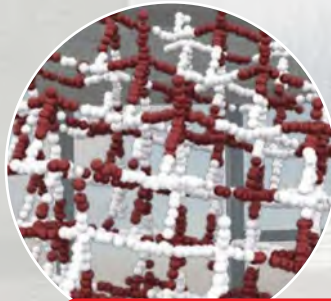


## HM-500

NANO-TECH PRECISION • ELASTIC REACTIVE CORE • VACUUM-SEALED QUALITY



**ELASTIC REACTIVE  
SPHERICAL BODY**



**ADVANCED NANO  
MATERIAL TECHNOLOGY**



**DUAL-PLANETARY  
VACUUM CHAMBER**

### OFFICIAL DISTRIBUTOR CERTIFICATE

This certifies that

**Q-MAX Global Co.(BD)Ltd.**  
(House No.185,Flat No.B-7,West Dhanmondi,Dhaka-1209, Bangladesh)

have been registered as an Official Distributor  
and demonstrated competence in applying  
the following HORSE Construction products

**HORSE carbon fiber fabric/laminate**  
**HORSE crack injection system**  
**HORSE anchor epoxy system**  
**And all HORSE materials**

For and on behalf of  
Shanghai Horse Construction Co., Ltd.

  
**Benjamin Ling**  
Head of Oversea Market  
Sales Director

Valid from: 01st January, 2025  
Valid until: 31st December, 2026  
(subject to periodic site inspections)

This certificate is issued upon request and Horse does not assume responsibility for the correct storage, mixing or use of these Products. Horse shall not be liable for damage to persons or property, loss of business or profit or any other direct, indirect, incidental, special or consequential damage so caused by the Approved Applicator. Horse shall also not be responsible for use of these Products in a manner to infringe on any patent or other intellectual property rights held by others. Horse's liability is limited to the quality only of the supplied material. Any failures due to wrong application or storage not in accordance with the given guidelines as stated on the latest Technical Data Sheets, as well as structural or mechanical failures are excluded herein.

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### Manufacturer Info

Shanghai Horse Construction Co., Ltd is a leading manufacturer specializing in structural strengthening materials. The company's core products include high-performance Horse carbon fiber systems and a full range of advanced epoxy resin adhesives.

As a pioneer in China's reinforcement materials industry, Horse Construction has played an active role in developing national and industry standards. The company maintains strong collaborations with renowned institutions such as Tsinghua University, Tongji University, and Syracuse University, engaging in joint testing, research, and product development to ensure cutting-edge performance and reliability.

### Distributor Info - Bangladesh

Q-MAX serves as the official distributor of HM-500 and other advanced construction solutions in Bangladesh.

Q-MAX Global Co. (BD) Ltd. specializing in the supply of premium construction and engineering materials. Its product portfolio includes waterproofing solutions, grouting materials, construction chemicals, floor protection systems, asphalt products, and specialized additives. Committed to delivering high-quality materials and reliable service,

Official Distributor

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