

ABABOND RA-500

HIGH PERFORMANCE TWO-COMPONENT EPOXY ADHESIVE ANCHOR SYSTEM FOR THREADED RODS AND REINFORCING BARS IN CONCRETE

DESCRIPTION

ABABOND RA-500 is an injectable two-component, solvent-free epoxy high performance adhesive anchor system for threaded rods and reinforcing bars in concrete. Resin and hardener are stored in two separate chambers and are not mixed and activated until extrusion through the static mixer.

FIELD OF APPLICATION

- Adhesive anchoring into concrete substrates
- Anchoring of supports for ducting and equipment

ADVANTAGES

- Injection system with high loading capacity
- Large diameter applications
- Extended working time even at elevated temperatures
- Odourless epoxy resin
- Anchoring without expansion force
- Excellent bond performance
- High load capacity
- Styrene-free

SURFACE QUALITY

- Mortar and concrete must be older than 28 days.
- Substrate strength (concrete, masonry, natural stone) must be verified.
- The anchor hole must always be clean, dry, free from oil and grease, etc.
- Loose particles must be removed from the holes.
- Surface temperature should be at least 3 °C above the dew point.
- Threaded rods and rebars have to be cleaned thoroughly from any oil, grease or any other substances and particles such as dirt, etc.

HOLE PREPARATION

- Drilling of hole with an electric drill to the diameter and depth required. Drill hole diameter must be in accordance with anchor size.
- The drill hole must be cleaned with a blow pump or by compressed air, starting from the bottom of the hole. Oil-free compressors shall be used.
- The drill hole must be thoroughly cleaned with a brush. The diameter of the brush must be larger than the diameter of the drill hole.
- The drill hole must then be cleaned again with a blow pump or by compressed air, starting from the bottom of the hole.



ADHESIVE INJECTION

- Remove the cap and replace it with the static mixer. Place it into the dual cartridge dispenser.
- Extrude the first part of the cartridge to waste until an even colour has been achieved without streaking in the resin.
- Inject the adhesive into the hole, starting from the bottom, while slowly drawing back the static mixer. In any case avoid entrapping air. For deep holes extension tubing can be used.
- Insert the anchor with a rotary motion into the filled drill hole. Some adhesive must come out of the hole. The anchor must be placed within the open time. During the resin hardening time the anchor must not be moved or loaded.
- Wash hands and skin thoroughly with warm water and soap.

TECHNICAL DATA

Colour	GRAY
Mixing Ratio	3:1 (by volume)
Density (A+B)	~ 1.4 g/cm ³
Volume solid	100%
Compressive strength (7 days)	> 90 MPa
Bond strength (7 days)	~ 16 MPa
Substrate temperature	5 – 40°C
Ambient temperature	5 – 40°C
Cleaner	T-200

ABABOND-RA 500 ADHESIVE CURE AND WORKING TIME

°C	t _{work}	t _{cure, ini}	t _{cure, ful}
5	6 h	24 h	1 week
15	5 h	20 h	4 days
25	20 min	10 h	3 days
35	15 min	6 h	2 days
45	8 min	4 h	1 day



CONSUMPTION DATA

Rebar diameter Φ (mm)	Φ 8	Φ 10	Φ 12	Φ 14	Φ 16	Φ 20	Φ 25	Φ 28	Φ 32
Drill bit diameter (mm)	12	14	18	20	22	26	30	36	40
Hole depth (mm)	90	100	115	135	145	185	220	280	310
Nominal anchorage depth (mm)	85	95	110	130	140	180	210	270	300
Minimum thickness of base material (mm)	110	130	140	180	190	230	270	340	380
Quantity of filled hole/cartridge	85	55	28	22	18	9	7	4	3

PACKAGING

600 ml dual cartridge.

STORAGE & SHELF LIFE

The shelf life is 12 months if unopened, stored free from frost, moisture and direct sunlight at temperatures between +10°C and +30°C.

HEALTH & SAFETY

Keep away from heat and open flame. Keep container closed. Use with adequate ventilation. Avoid prolonged and repeated contact with skin. MSDS is available at ABADGARAN website.

TECHNICAL SERVICE

The ABADGARAN INTERNATIONAL GROUP Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

