

CONSTRUCTION

ANCHORTITE

FAST SETTING POLYESTER RESIN ANCHORING GROUT

DESCRIPTION

Anchortite is a dual component, fast setting and free flowing polyester resin anchoring grout, consisting of a specially formulated liquid resin and hardener. It is designed specifically for anchoring bolts and dowels in concrete, rock, brick and masonry. Always perform pull out testing to determine the performance in each situation. Anchortite resists oil, grease, fats, mild acids, alkalies, fresh and salt water. Where exposure to a specific chemical is anticipated, consult Minova USA, Inc. directly.

USES

Anchortite is used for grouting high strength anchor bolts and starter bars in concrete, and anchors in rock. Suggested applications for Anchortite include light and heavy rail track anchoring, setting of highway lighting standards, anchoring of precast median barriers and signs on highways. Handrails, guardrails and pipe protection stands around safety areas are excellent applications for Anchortite.

ADVANTAGES

- Fast setting – pot life in as little as 5 minutes
- High strength – 14,000 psi
- Chemically resistant – to attack by many chemicals



Anchortite Fast Kit.



Anchortite Slow Kit.

APPLICATION METHOD

Anchor bolt holes should be drilled using air or water flushed rotary percussive equipment. If diamond core or non-percussive drills are used, the hole must be thoroughly scoured using a coarse wire flue brush. Anchor bolt holes less than 36 inches deep should not be more than 1/2 inch larger in diameter than the bolt diameter. Anchor bolts longer than 36 inches can have a hole diameter 3/4 inches larger than the bolt diameter. Minova Lokset® Resin Cartridges may be considered for long bolt application.

To obtain the proper consistency, the correct ratio of filler/hardener-to-resin must be used. The ratio is two parts of filler/hardener to one-part resin by volume.

1. Place a measured volume of resin into a clean container, then gradually add hardener to the resin, stirring constantly to obtain uniformity.
2. Place Anchortite into prepared hole such that little or no air is trapped.
3. Insert the bolt or bar with a twisting action for maximum contact between the resin compound and anchor.

TECHNICAL DATA

The data below is laboratory data only. It may vary in practice due to thermal exchange between resin and strata, surface properties of the stone, humidity, pressure and other factors.

MATERIAL DATA

Parameter	Time / Value
Compressive Strength ASTM C109	5 times pot life @ 75°F / 10,000 psi (69.0 MPa) 7 days @ 75°F / 14,000 psi (96.5 MPa)
Tensile Strength ASTM C307	5 times pot life @ 75°F / 1,400 psi (9.7 MPa) 7 days @ 75°F / 2,000 psi (13.8 MPa)
Heat Distortion Temperature ASTM D648	212°F (100°C)
Coefficient of Linear Expansion	2.55 x 10 ⁻⁵ /°C

SAFETY INSTRUCTIONS AND LIMITATIONS

Do not mix more grout than can be applied within the pot life of the material. (See Anchortite Slow and Fast Resin Speeds Chart). Do not add other materials to Anchortite.

PACKAGING and TRANSPORTATION

CONTAINER TYPE	ANCHORTITE COMPONENT A	ANCHORTITE COMPONENT B
Gal (Can)	9 lbs (4.1 kg)	
Bag		27 lbs (12.3 kg)
Anchortite Fast Kit	36 lbs (16.4 kg)	
Anchortite Slow Kit	36 lbs (16.4 kg)	

Other packing units available on request.

STORAGE AND SHELF LIFE

Anchortite has a shelf life of 6 months if stored in unopened containers under recommended conditions. Unused quantities of resin and filler/hardener may be tightly resealed and stored in a cool dry place 60°F - 80°F (15°C – 26.6°C).

DISPOSAL

If Anchortite Component A as supplied becomes a waste, it meets the criteria of a hazardous waste exhibiting characteristic ignitability as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. If Anchortite Component B as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of material in accordance with all applicable federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

APPROVALS AND CERTIFICATES

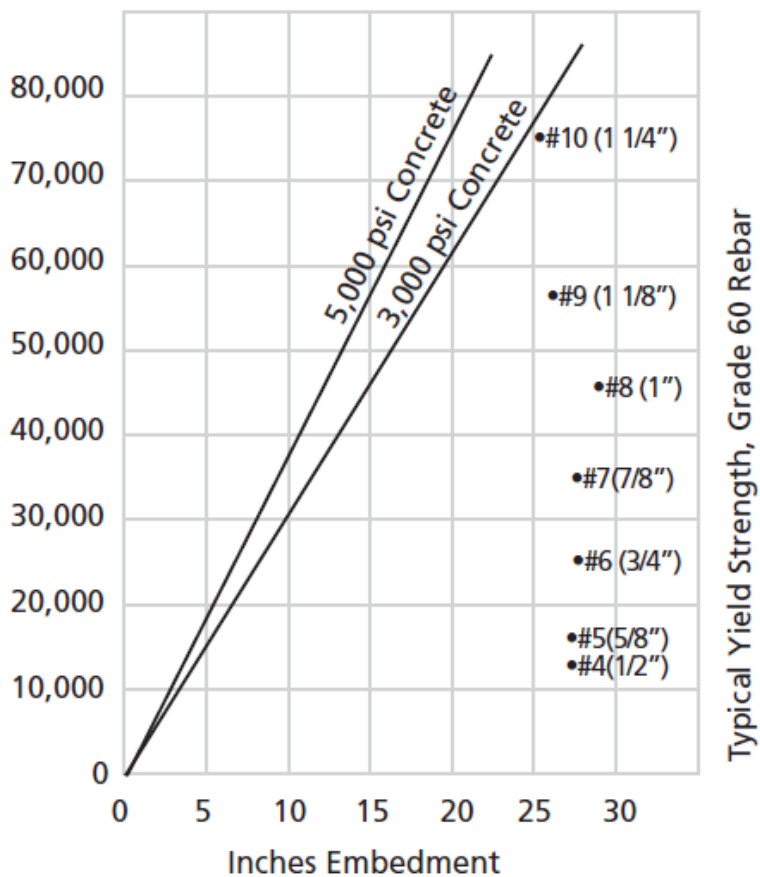


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Anchortite – Slow and Fast Resin Speeds

Resin Speed		Ratios		Pot Life in Minutes				
Specify Resin Speed When Ordering	Consistency	Filler to Resin by Volume	Filler to Resin by Weight	30°F(-1°C)	45°F (7°C)	60°F (15.5°C)	75°F (24°C)	90°F (32°C)
Slow	Pourable	2:1	3:1	206 (not recommended)	130	60	30	15
Fast	Pourable	2:1	3:1	45	25	12	7	3

Anchortite Polyester Resin Anchor Pull-Out Strength Chart



On-site tests should be carried out to verify anchorage performance of various steel components used with Anchortite. This chart represents typical anchorages with Grade 60 rebar in 3,000- and 5,000-pound concrete (un-reinforced), for threaded and deformed 1/2 inch to 1-1/4-inch diameter bars anchored into concrete.

ADDITIONAL DOCUMENTATION

Started more than 135 years ago, Minova is a global manufacturer and supplier of chemical and mechanical earth control products and support equipment. With manufacturing plants on five continents and operations in more than 25 countries, Minova is an industry-leading provider of ground support solutions for the underground mining, construction and energy industries.

If further information is required consult Minova Americas website: www.minovaglobal.com.

- Anchortite Component A Safety Data Sheet (SDS)
- Anchortite Component B Safety Data Sheet (SDS)
- Minova Anchortite Product Specification

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