

CHEMFIT ANCHORGRIP 9500

Solvent and Styrene Free, Two Part Polyester Anchoring Adhesive – For Rebars, Threaded Rods, Bolts, Concrete, Hollow and Solid Masonry

PRODUCT DESCRIPTION

ChemFit AnchorGrip 9500 is a high-performance, solvent-free and styrene-free, two-part polyester anchoring adhesive designed for fixing rebars, threaded rods, bolts, and anchors into concrete, hollow block, and solid masonry. The styrene-free formulation eliminates unpleasant odors and health risks associated with traditional polyester resins. The fast-curing system provides high bond strength and consistent performance across a wide range of base materials, including dry, damp, or water-filled holes.

PRIMARY APPLICATIONS

ChemFit AnchorGrip 9500 is recommended for use in conditions such as:

- Fixing rebars and starter bars into concrete and masonry
- Installing threaded rods, bolts, and expansion anchors
- Anchoring structural steel elements to concrete
- Post-installed reinforcement for concrete extensions
- Hollow and solid brick, block, and stone anchoring
- Fixing handrails, bollards, and safety barriers
- Repair and rehabilitation projects

KEY FEATURES AND BENEFITS

- **Solvent and styrene free** – No odors; safe for indoor and confined spaces
- **Two-part polyester** – Fast curing; high early strength
- **Versatile substrate compatibility** – Concrete, hollow/solid masonry, brick, stone
- **All-weather performance** – Cures in dry, damp, or water-filled holes
- **High bond strength** – Suitable for structural anchoring
- **Easy mixing** – Static mixing nozzle (included)
- **Good gap filling** – Works in oversized holes
- **Long shelf life** – 18 months in unopened cartridges

PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Two components: resin (gray) + hardener (white)
Mixed color	Medium gray
Viscosity (mixed)	Thixotropic paste (non-sag)
Mix ratio	10:1 (by volume, cartridge)
Specific gravity (mixed)	1.6 – 1.8 g/cm ³
Pot life (at 25°C)	2 – 4 minutes (cartridge)
Cure time (full load)	30 – 60 minutes (depending on temperature)
Final cure	24 hours
Application temperature	-10°C to +40°C
Service temperature	-40°C to +80°C

CURING TIME

Temperature	Cure time
-10°C to 0°C	90 – 120 minutes
0°C to 10°C	45 – 90 minutes
10°C to 20°C	30 – 45 minutes
20°C to 30°C	20 – 30 minutes
30°C to 40°C	15 – 20 minutes

PACKAGING AND STORAGE

Packaging:

- 150 mL twin cartridges (with static mixing nozzle)
- 300 mL twin cartridges (with static mixing nozzle)
- 550 mL twin cartridges (with static mixing nozzle)

Storage:

- Store in original sealed cartridges at +5°C to +25°C
- Protect from direct sunlight, frost, and extreme heat
- Do not freeze; shelf life reduces at high temperatures
- Keep nozzles clean and capped when not in use

Shelf life: 18 months from date of manufacture (unopened, proper storage)

DOSAGE AND COVERAGE RATES

Yield per cartridge (linear meters per hole diameter):

Hole Diameter (mm)	150 mL cartridge (m)	300 mL cartridge (m)	550 mL cartridge (m)
10	3.5 – 4.0	7.0 – 8.0	13 – 15
12	2.2 – 2.5	4.5 – 5.0	8 – 9
14	1.5 – 1.8	3.0 – 3.5	5.5 – 6.5
16	1.1 – 1.3	2.2 – 2.6	4.0 – 4.8
20	0.7 – 0.8	1.4 – 1.6	2.6 – 3.0
25	0.4 – 0.5	0.8 – 1.0	1.5 – 1.8

Anchor rod diameter vs. recommended hole size:

- Rod diameter + 4 mm for concrete (e.g., M12 → 16 mm hole)
- Hollow block: use mesh sleeve with rod diameter + 6 mm hole

NOTE: Coverage is approximate; depends on hole cleanliness, oversizing, and substrate type. Always consult design values for structural applications.

APPLICATION GUIDELINES

Surface prep:

- Drill hole to specified diameter and depth; clean with brush and compressed air (blow 2x, brush 2x, blow again)
- For hollow block: clean hole and insert mesh sleeve (supplied separately)

Mixing:

- Insert cartridge into standard caulking gun; attach mixing nozzle
- Discard first 2-3 cm of mixed adhesive (incomplete mix)
- Ensure nozzle is fully seated and mix color is uniform gray

Injection:

- Inject adhesive from bottom of hole moving upward (to avoid air pockets)
- Fill hole to 2/3 depth for vertical or 80% for horizontal/overhead
- For mesh sleeve: fill sleeve completely

Insertion:

- Insert rod/bolt with slow twisting motion into hole
- Press until full depth is reached; slight adhesive overflow is normal
- Do not disturb during cure time (see curing table)

Curing:

- Allow full cure time before loading (based on temperature)
- For water-filled holes: double cure time
- Avoid mechanical shock during cure

HEALTH AND SAFETY

Polyester resin and hardener may cause skin and eye irritation. If eye contact: rinse 15 min with water, seek medical aid. Skin: wash with soap and water. If swallowed: do not induce vomiting – rinse mouth, seek medical aid. Use gloves (nitrile), safety glasses, protective clothing. Ensure ventilation. Refer SDS.

CLEANG OF TOOLS

Clean uncured adhesive from tools and nozzles with acetone or polyester solvent before cure. Cured adhesive requires mechanical removal. Dispose of waste according to local regulations.

APPROVALS AND STANDARDS

ChemFit AnchorGrip 9500 conforms to the following standards:

- **ASTM E1512** (bond strength of adhesive anchors)
- Meets **ETAG 001** (Option 1 / Option 7) for post-installed rebars and anchors (applicable)
- Solvent and styrene free – safe for confined spaces
- Suitable for concrete, hollow and solid masonry

LEGAL NOTES

All technical data provided in this Product Data Sheet is based on laboratory testing under controlled conditions. Actual field performance may vary due to differences in substrates, application methods, site conditions, and environmental factors. ChemFit makes no warranty of merchantability or fitness for a particular purpose. Users shall conduct their own trials to validate product suitability for the intended application. ChemFit reserves the right to modify product specifications without prior notice. For the most current documentation, request the latest Product Data Sheet and Safety Data Sheet from ChemFit.

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