CHEMFIT ANCHORGRIP 9510

Epoxy Acrylate Based, Solvent and Styrene Free, Two Part Anchoring Adhesive

PRODUCT DESCRIPTION

ChemFit AnchorGrip 9510 is a high-performance, solvent-free and styrene-free, two-part anchoring adhesive based on epoxy acrylate technology. This advanced adhesive provides fast curing, high load capacity, and excellent bond strength across a wide range of substrates. The thixotropic, non-sag formulation allows for vertical and overhead applications without dripping. Suitable for use in dry, damp, or water-filled holes, it is the ideal solution for demanding anchoring and post-installed rebar applications in concrete, solid masonry, and steel.

PRIMARY APPICATIONS

ChemFit AnchorGrip 9510 is recommended for use in conditions such as:

- Rebars and reinforcing steel (post-installed rebar connections)
- Threaded rods and anchor bolts
- Special fastening systems in concrete (cracked and non-cracked)
- Solid masonry (brick, block, stone) and steel
- Medium to heavy load anchoring
- Structural connections, column-to-slab and slab-to-wall

KEY FEATURES AND BENEFITS

- **Epoxy acrylate based** – High bond strength; fast curing; durable
- **Solvent and styrene free** – No odours; safe for indoor and confined spaces; LEED applicable
- **Thixotropic** – Non-sag; works on vertical and overhead surfaces
- **All-weather performance** – Cures in dry, damp, or water-filled holes
- **High load capacity** – Suitable for cracked and non-cracked concrete
- **Wide substrate compatibility** – Concrete, solid masonry, steel, hard natural stone, solid rock
- **CE marked** – Conforms to ETAF 001 Part 5 Option 7, ETAG001 TR023, ISO 834
- **Good gap filling** – Works in oversized holes
- **Long shelf life** – 18 months in unopened cartridges
- **Drinking water certified** – Suitable for potable water applications (comparable to industry standards)

PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Two components (resin + hardener)
Mixed colour	Grey
Basis	Epoxy acrylate resin
Solvent content	Nil
Styrene content	Nil
Viscosity (mixed)	Thixotropic paste (non-sag)
Mix ratio	10:1 (by volume, cartridge)
Density (mixed)	1.60 – 1.68 kg/L
Pot life (at 25°C)	2 – 4 minutes
Gel time (at 25°C)	4 – 6 minutes
Cure time (full load)	30 – 60 minutes (depends 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

MECHANICAL PROPERTIES

Property	**Value**
Compressive strength	> 70 MPa (10,150 psi)
Tensile strength	> 20 MPa (2,900 psi)
Flexural strength	> 35 MPa (5,075 psi)
Bond strength – concrete (M10/M12)	> 25 kN (concrete failure)
Elastic modulus (compression)	~7,000 MPa
Elastic modulus (tension)	~3,800 MPa

PACKAGING AND STORAGE

Packaging:

- 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 metres per hole diameter):

Hole Diameter (mm)	300 mL cartridge (m)	550 mL cartridge (m)
10	7.0 – 8.0	13 – 15
12	4.5 – 5.0	8 – 9
14	3.0 – 3.5	5.5 – 6.5
16	2.2 – 2.6	4.0 – 4.8
20	1.4 – 1.6	2.6 – 3.0
25	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 GUIDLINES

Surface prep:

- Drill hole to specified diameter and depth
- Clean thoroughly using brush and compressed air (blow 2x, brush 2x, blow again)
- Hole must be clean and free of dust, debris, oil, and ice
- For water-filled holes, product is suitable – no special drying required

Mixing:

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

Injection:

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

Insertion:

- Insert rod/bolt with slow twisting motion to ensure full coating
- Press until full depth is reached; slight adhesive overflow is normal
- Do not disturb during cure time (see cure time 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

Epoxy acrylate resin and hardener may cause skin and eye sensitisation and irritation. If eye contact occurs, rinse with water for 15 minutes and seek medical attention. For skin contact, wash immediately with soap and water; remove contaminated clothing. If swallowed, seek medical attention immediately – do not induce vomiting. Use gloves (nitrile), safety glasses, and protective clothing during handling. Ensure adequate ventilation – use respiratory protection if ventilation is poor. Refer to the Safety Data Sheet for detailed information.

CLEAING OF TOOLS

Clean all mixing equipment, nozzles, and spillages with acetone, xylene, or epoxy thinner immediately after use before material cures. Dried epoxy requires mechanical removal. Dispose of cleaning materials in accordance with local regulations.

APPROVALS AND STANDARDS

ChemFit AnchorGrip 9510 conforms to the following standards:

- **ETAF 001 Part 5 Option 7** – Bonded injection type anchor for non-cracked concrete
- **ETAG001 TR023** – Post-installed rebar connections (EOTA TR023 assessment guidelines)
- **ISO 834** – Fire resistance testing (fire performance according to ISO 834 standard time-temperature curve)
- **CE marked** – Declaration of Performance with notified body certification
- Solvent and styrene free – Safe for confined spaces; low odour; LEED applicable
- Suitable for cracked and non-cracked concrete, solid masonry, steel, hard natural stone, solid rock
- Drinking water compliant (comparable to WRAS approval standards)

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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