

# CHEMFIT ANCHORGRIP 9520

**High Performance, Two Part Epoxy Resin Based, Solvent Free, Thixotropic Anchoring Adhesive**

## PRODUCT DESCRIPTION

**ChemFit AnchorGrip 9520** is a high-performance, two part, solvent free, thixotropic anchoring adhesive based on pure epoxy resin technology. This advanced adhesive provides exceptional bond strength, fast cure, and excellent chemical resistance. The thixotropic, non-sag formulation allows for easy application on vertical and overhead surfaces without dripping. Suitable for use in dry or damp concrete, it is ideal for non-expanding anchors in structural work and mechanical and electrical installations.

## PRIMARY APPLICATIONS

**ChemFit AnchorGrip 9520** is recommended for use in conditions such as:

- Non-expanding anchors in structural work (concrete, solid masonry)
- Threaded rods, bolts, and reinforcing bars (rebar)
- Mechanical and electrical services installation (supports, ducting, railings)
- Fixing handrails, balustrades, window/door frames
- Crack repair and cavity filling in concrete
- Chemical anchoring in damp and water-filled holes

## KEY FEATURES AND BENEFITS

- **Epoxy resin based** – High strength, excellent chemical and fire resistance
- **Solvent free** – Low odor, zero VOC, safe for confined spaces
- **Thixotropic** – Non-sag; works on vertical and overhead surfaces
- **All-weather performance** – Cures in dry or damp concrete
- **High load capacity** – Suitable for cracked and non-cracked concrete
- **Fast curing** – Quick return to service
- **Good gap filling** – Works in oversized holes
- **Available in multiple cartridges** – 250 mL, 400 mL, 1500 mL
- **Fire resistance** – Tested to ISO 834 (fire resistance)

## PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Two components: resin (gray) + hardener (white)
Mixed color	Medium gray
Basis	Pure epoxy resin
Solvent content	Nil
Styrene content	Nil
Viscosity (mixed)	Thixotropic paste (non-sag)
Mix ratio (cartridge)	10:1 or 1:1 (by volume)
Density (mixed)	1.6 – 1.8 g/cm <sup>3</sup>
Pot life (at 25°C)	5 – 10 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

## MECHANICAL PROPERTIES

Property	Value (typical at 7 days / 25°C)
Compressive strength	> 70 MPa (10,150 psi)
Tensile strength	> 20 MPa (2,900 psi)
Flexural strength	> 35 MPa (5,075 psi)
Bond strength – concrete (M12 rod)	> 25 kN (concrete failure)
Elastic modulus (compression)	~7,000 MPa

## PACKAGING AND STORAGE

### Packaging:

- 250 mL twin cartridges (with static mixing nozzle)
- 400 mL twin cartridges (with static mixing nozzle)
- 1500 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)	250 mL (m)	400 mL (m)	1500 mL (m)
10	7.0 – 8.0	11.2 – 12.8	42.0 – 48.0
12	4.5 – 5.0	7.2 – 8.0	27.0 – 30.0
14	3.0 – 3.5	4.8 – 5.6	18.0 – 21.0
16	2.2 – 2.6	3.5 – 4.2	13.2 – 15.6
20	1.4 – 1.6	2.2 – 2.6	8.4 – 9.6
25	0.8 – 1.0	1.3 – 1.6	4.8 – 6.0

**Anchor rod diameter vs. recommended hole size:**

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

**NOTE:** Coverage is approximate; depends on hole cleanliness, oversizing, and substrate type.

**APPLICATION GUIDELINES**

**Surface Prep:**

- Drill hole to specified diameter and depth
- Clean with brush and compressed air (blow 2x, brush 2x, blow again)
- Hole must be clean, 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 mixed colour is uniform gray

### 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 technical data for cure times)

### 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 resin 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.

## CLEANG 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 9520** conforms to the following standards:

- **ETAG001** – European Technical Approval for anchoring in concrete (Option 7 for non-cracked concrete, and Option 1 for cracked concrete)
- **ISO 834** – Fire resistance testing (fire performance according to ISO 834 standard)
- **ASTM E1512** – Standard test methods for bond strength of adhesive anchors
- **ASTM C881** – Standard specification for epoxy resin bonding systems for concrete
- Solvent free, two component epoxy anchoring adhesive
- Suitable for non-expanding anchors in structural work, mechanical & electrical installation

## 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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