

GRX NUGGET | CHEMICAL ANCHOR

GRX851

TECHNICAL SPECIFICATION

Product Overview

- System Type: Modified epoxy resin, styrene-free, safe, and non-toxic.
- Application: Suitable for structural reinforcement, equipment installation, and fixing curtain wall brackets.
- Versatility: Ideal for anchoring on side or top surfaces due to excellent thixotropic properties.
- Operation: Injection-type system that eliminates the need for manual mixing, shortening construction progress.

Technical Specifications and Performance

- Mixture Ratio (Weight): 3:1.
- Viscosity of Mixture: 18-22 pa-s.
- Density after Curing: 1.5 +/- 0.10 g/cm³.
- Compressive Strength: 126.6 Mpa.
- Flexural Strength: 76.7 Mpa (No rupture-like damage).
- Split Tensile Strength: 8.75 Mpa.
- Steel-Steel Anti-Shear Strength: 18.2 Mpa.
- Non-volatile Matter Content: 99.1%.

Curing Schedule The operable and curing times are highly dependent on the ambient temperature

- -5 Degrees C: Operable 60 min | Curing 72 h.
- 10 Degrees C: Operable 30 min | Curing 24 h.
- 20 Degrees C: Operable 15 min | Curing 16 h.
- 30 Degrees C or higher: Operable 20 min | Curing 8 h.

Anchor Installation Parameters

Typical data for threaded bar (M8-M16) installation:

- M8: Drill 12mm | Depth 80mm-120mm | Volume 6.03-9.04 ML.
- M10: Drill 14mm | Depth 100mm-150mm | Volume 10.26-15.08 ML.
- M12: Drill 16mm | Depth 120mm-180mm | Volume 16.09-24.12 ML.
- M16: Drill 22mm | Depth 160mm-240mm | Volume 40.52-60.79 ML.

Key Advantages

- Stability: Low moisture sensitivity for long-term load stability in humid environments.
- Resistance: High resistance to acid, alkali, and aging.
- Safety: Styrene-free, non-toxic, and anti-shock with no expansion stress fixation.
- Effectiveness: High adhesion strength equivalent to pre-embedded reinforcements.

Storage and Packaging

- Standard Packing: 585ml cartridges (20 pcs per carton).
- Shelf Life: At least 12 months from the date of manufacture when stored correctly.
- Storage Conditions: Store in original, upright packaging in cool conditions (+50F to +77F) and out of direct sunlight.

