

Chemical Capsule

Technical Data Sheet

Short Description

High-strength pre-measured chemical resin capsule designed for secure anchoring of threaded rods and reinforcing bars into concrete. Suitable for heavy-duty structural and industrial fastening applications.

Product Overview

Chemical Capsules are glass-encapsulated resin systems inserted into pre-drilled holes in concrete. When the threaded rod or rebar is rotated into the capsule, the glass breaks and mixes the resin and hardener, creating a strong chemical bond.

Canco Fasteners manufactures chemical capsules according to international quality standards or customer-approved specifications, supporting OEM programmes, distributor supply, and export requirements.

Quick Specifications

Resin Type Options

- Polyester Resin
- Vinylester Resin
- Epoxy Resin
- Standard & High Temperature Grades

Suitable Rod Types

- Threaded Rod (Carbon Steel)
- High Tensile Studs (Grade 8.8 / 10.9)
- Stainless Steel Threaded Rod (AISI 304 / 316)
- Reinforcing Bars (Rebar)

Size Range

Available for various anchor diameters (e.g., M8 to M30). Capsule length and diameter customised as per anchor size.

Base Materials

- Non-cracked concrete
- Cracked concrete (depending on resin type)

- Solid stone

Standards

Manufactured as per applicable international standards or customer specifications. Testing and compliance documentation available upon request.

Customisation Availability

- Custom capsule sizes
- Special resin formulation
- Private-label packaging
- Bulk export supply

Technical Specification Sheet

Product Description

Pre-measured glass capsule containing resin and hardener components. Designed for controlled and consistent chemical anchoring performance.

Components

- Glass capsule
- Resin compound
- Hardener component

Performance Characteristics

- High load-bearing capacity
- Controlled mixing during installation
- Vibration resistant
- Suitable for overhead applications
- Minimal installation error due to pre-measured dosage

Installation Procedure (General)

1. Drill hole to specified diameter and depth.
2. Clean hole using blow-brush-blow method.
3. Insert chemical capsule into drilled hole.
4. Rotate threaded rod into capsule using rotary tool.
5. Allow recommended curing time before loading.

Curing Time

Curing time depends on ambient temperature and resin type. Refer to product-specific curing chart for exact timing.

Testing & Inspection

- Dimensional inspection
- Resin quality testing
- Load / pull-out testing (upon request)
- Batch traceability available

Typical Applications

- Structural steel connections
- Machinery installation
- Bridge and infrastructure anchoring
- Base plate fixing
- Safety barrier installation

Storage Conditions

Store in cool and dry conditions away from direct sunlight. Shelf life depends on resin formulation and storage temperature.

Export & Packaging

Available in:

- Individual capsule packing
- Bulk cartons
- Palletised loads
- Private-label packaging

Canco Fasteners manufactures chemical capsules strictly to approved standards or customer drawings. Products are available for OEM programmes, distributor supply, and containerised export shipments.

For bulk supply or OEM enquiries:

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