

PRODUCT CATALOGUE

Chemical Anchor Solutions

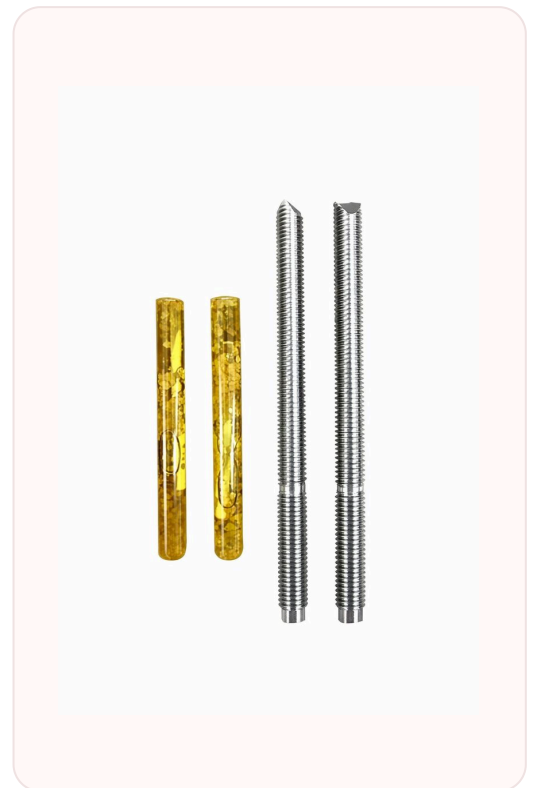
High-performance chemical anchoring for concrete and masonry — engineered for high-load applications, close-to-edge fixing and long-term structural integrity, with no expansion pressure in the base material.

**M8–
M30**FULL SIZE
RANGE**4.8 / 5.8 /
8.8**

PROPERTY CLASS

**SS • MS •
HDG**

MATERIALS



PRODUCT OVERVIEW

Chemical anchor **bolt systems**

Chemical anchors bond to the substrate — usually concrete or masonry — giving a reliable, high-strength connection that suits high-load applications and close-to-edge fixing.

Unlike mechanical expansion anchors, they work by adhesive bond. That removes expansion pressure altogether, which is what makes them usable in cracked concrete, in masonry, and close to edges and corners where an expansion anchor would spall the base material.

Approved for cracked and non-cracked concrete and masonry — **compatible with a wide range of adhesive chemical mortars.**

WHY CHEMICAL

Flexible embedment
No setting tools
Edge fixing
No expansion load

APPROVED FOR

Cracked concrete
Non-cracked concrete
All masonry types
Hollow blocks

SPECIFICATION

SS / MS / HDG
4.8 / 5.8 / 8.8
Custom lengths
Made in India

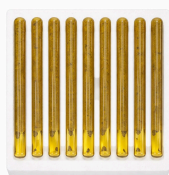
THE SYSTEM

Stud, resin and **the tools to place it**



CCS Threaded Stud

Chemical anchor stud, M8–M30, SS / MS / HDG



Resin Capsules

2-component vinyl ester, M12–M30



Anchor Cartridges

360ml · 400ml · 650ml injection systems



Injection Tool

Manual and mechanical caulking guns

A complete anchoring system — stud, resin, nozzle and gun — supplied from one manufacturer.

MADE IN INDIA

USE CASES

Where chemical anchors **earn their place**

Ideal wherever expansion pressure is unwanted and structural integrity is non-negotiable.

01

Pipeline & machines

Mounting industrial pipelines, mechanical equipment and heavy machinery to concrete slabs and walls.

02

Cable trays

Fixing cable management systems, conduit supports and electrical enclosures to structural concrete.

03

Awnings & canopies

Structural attachment of canopies, awning frames and facade elements subject to wind and dynamic load.

04

Handrails & railings

Post setting for staircases, balconies and ramp handrails where code compliance and load capacity are critical.

05

Facade systems

Connecting cladding, curtain wall elements and stone facade panels to reinforced concrete structures.

06

Base plates & steel

Column base plate fixing, machine anchoring, racking systems and structural steel connections to foundations.

Special lengths and materials on request — we manufacture to your specification.

SINCE 1967



PRODUCT 01 · CHEMICAL ANCHOR STUD

CAN Chemical Stud (CCS)

A threaded stud anchor for use with chemical adhesive systems, in stainless steel or yellow zinc plated mild steel. It gives heavy-duty fixing with no radial expansion force, so it can be positioned close to an edge. Accurate drill depth is essential, and the anchor is fully loadable once the prescribed hardening time has passed.

- SS
- MS
- HDG
- DIN
- ASTM
- BS

- Heavy-duty fixing with no radial expansion force
- Can be used close to edges — ideal for edge-critical work
- Fully loadable after the prescribed hardening time
- Available in hex head and round head configurations

Material	SS · MS · HDG
Property class	4.8 / 5.8 / 8.8
Size range	M8 — M30
Finish	Yellow zinc plated · passivated SS



SIZE REFERENCE

DIA × LENGTH	MAX FASTENED THICKNESS	HOLE SIZE (MM)
M8 × 110	20 mm	10
M10 × 115	15 mm	12
M10 × 130	30 mm	12
M12 × 120	10 mm	14
M12 × 160	35 mm	14
M16 × 190	45 mm	18
M20 × 260	65 mm	25
M24 × 300	60 mm	28
M30 × 380	70 mm	35

Custom lengths and special materials manufactured to order. Confirm embedment depth and substrate condition against the technical data sheet before specifying.

PRODUCT 02

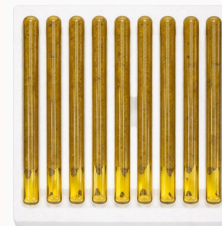
Chemical resin capsule

The two-component capsule holds a quick-setting, styrene-free vinyl ester resin and its hardener. The threaded rod is driven in with a hammer drill and setting tool in a rotating and hitting motion. As it goes in, the oblique edge destroys the capsule and mixes the mortar, which then bonds the whole surface of the rod to the wall of the drill hole.

The fixing produces **no expansion pressure**, which is what allows reduced edge distances and tighter on-centre spacing. Full torque ensures complete bonding.

Key features

- ✓ Styrene-free vinyl ester resin
- ✓ Economical, fast and easy installation
- ✓ No expansion pressure during fixing
- ✓ Available capsule sizes: M12 / M16 / M20 / M24 / M30


M12-M30

SIZE RANGE

100%

BOND COVERAGE

2 yr

SHELF LIFE

Styrene-free

RESIN TYPE

SETTING THE CAPSULE

01

Drill & clean

Drill the hole to the required diameter and depth. Blow out dust and loose material, then clean again.

02

Insert capsule

Insert the resin capsule into the clean hole to the correct depth.

03

Drive & mix

Drive the threaded rod with a hammer drill in a rotating and hitting motion — the oblique tip breaks the capsule and mixes the components.

04

Cure & load

Allow the prescribed curing time. Do not disturb during setting. Apply load only after full cure.

PRODUCT 03

Chemical anchor **cartridges**

The most widely used resin system — fast tropical-grade curing, in 360ml, 400ml and 650ml formats.



360ml
Standard
cartridge

Medium-duty work in concrete, stone and solid sand-lime brick. Convenient on site for guard rails, staircases and awnings.

Type	Polyester / epoxy
Mixing ratio	3:1
Use	Standard duty



400ml
Mid-volume
cartridge

Balanced volume for industrial and construction work. Suits hollow blocks and masonry, with fast curing in tropical conditions.

Type	Epoxy acrylate
Mixing ratio	1:1 / 3:1
Use	Medium-heavy duty



650ml
High-volume
cartridge

For high-volume heavy-duty fixing. Designed for large-diameter anchors and structural base plates.

Type	Pure epoxy
Mixing ratio	1:1
Use	Heavy structural

30 min

GELLING TIME AT 20-30°C

4 hrs

CURING TIME AT 20-30°C

24 hrs

BEFORE PULL-OUT TESTING

Gelling and curing times shorten in warmer conditions — always check the batch data sheet before loading.

TECHNICAL SUPPORT

INSTALLATION GUIDE

Installing a chemical anchor **from a cartridge**

Five steps, no specialist tools required.

01

Drill hole

Drill to the diameter and embedment depth that matches the chemical stud anchor being used.

02

Clean hole

Blow out dust and loose material. Brush the hole, then blow again so the adhesive makes full contact.

03

Inject adhesive

Inject mixed adhesive into roughly half the hole depth, starting from the bottom.

04

Insert & rotate

Insert the stud anchor and rotate by hand, or use a hammer drill with a hex-drive bit for full penetration.

05

Cure & load

Allow the recommended curing time. Do not disturb the anchor during setting. Apply load only after full cure.

Critical — do not disturb

The anchor must not be moved, loaded or disturbed during the curing period. Premature loading compromises the bond strength and the structural integrity of the connection.

Approved substrates

Cracked and non-cracked concrete, solid masonry, stone, solid sand-lime brick and hollow block. Consult the technical data sheet for substrate-specific embedment depths.

Hole cleaning is the step most often skipped on site — and the usual cause of reduced anchor capacity.

BLOW · BRUSH · BLOW

PRODUCTS 04 & 05

System accessories

Mixing nozzles and injection tools, supplied to match the cartridges so nothing on site is a mismatch.

04 — MIXING NOZZLES

Static mixing nozzles #818

The 818 series static mixers blend two-part adhesives automatically as they are dispensed. Made from high-grade polypropylene and disposable, for hygiene and consistency. Designed for precise 1:1 and 3:1 mixing ratios.

Item no.	#818
Compatibility	350ml / 400ml / 650ml
Mixing ratios	1:1 and 3:1
Material	Polypropylene (disposable)

05 — INJECTION TOOL

Chemical anchor caulking gun

A professional injection gun for controlled delivery of chemical anchor cartridges. It keeps pressure consistent and adhesive placement accurate, and is available in manual and mechanical-advance models to suit cartridge size and job scale.

Type	Sausage / cartridge gun
Cartridge size	360ml / 400ml / 650ml
Drive	Manual / mechanical
Frame	Steel — heavy duty



ORDERING THE FULL SYSTEM

What to order together**1****Studs**

CCS threaded studs in the size, grade and finish the job needs.

2**Resin**

Capsules or cartridges, sized to the anchor count and hole volume.

3**Nozzles**

One per working session — order in packs alongside the cartridges.

4**Cleaning kit**

Blow-out pump and brushes sized to the drilled hole diameter.

Tell us the anchor count and hole size and we will quote the matched resin, nozzle and tool quantities with it.

[SEND YOUR SPEC](#)



TECHNICAL DATA

Material and grade specifications

All products manufactured to DIN, ASTM and BS standards. Custom grades available on request.

Property class**4.8 · 5.8 · 8.8**

All standard property classes available, with the matching nut and washer grades supplied as a set.

Material**SS · MS · HDG**

Stainless steel, mild steel and hot-dip galvanised — selected to suit the exposure condition.

Size range**M8 – M30**

Custom and special lengths manufactured on request against your drawing or sample.

Finish**Yellow zinc**

Corrosion protection to standard requirements; passivated stainless and HDG also available.

WITH EVERY SHIPMENT

Material test certificate

EN 10204 3.1, with heat-number traceability back to the raw material.

Technical data sheet

Embedment depths, hole sizes, cure times and load data for the anchor supplied.

On-site pull-out testing

Field testing with a signed report where the project engineer requires it.

We manufacture chemical anchors in all sizes, lengths and materials — special requirements fulfilled on request.

MADE IN INDIA



GET IN TOUCH

Fixing solutions built to last

Chemical anchoring systems for every substrate and application.
Send us your specification or drawing and we will match the system
— or manufacture to it.

GENERAL ENQUIRIES

+91-11-4252 5500

info@cancofasteners.com

EXPORT SALES

+91-98110 63537

sales7@cancofasteners.com

DOMESTIC SALES

+91-99990 33330

sales8@cancofasteners.com

MANAGEMENT

+91-97170 05153

vasu@cancofasteners.com

OFFICE

B-6/2, DDA Commercial Complex

Safdarjung Enclave, New Delhi – 110029

FACTORY

A-63/2, G.T. Karnal Road Industrial Area

Azadpur, New Delhi – 110033