

Anchoring Capsules



Key Features

- Fast cure
- No mixing, no waste
- One capsule per fixing
- Use underwater

Description

Rapid cure, extra heavy duty anchoring of threaded studs into solid concrete and stone. For small jobs with few fixings. One capsule for one hole - no mixing, no mess, no waste. Carbide or diamond drilled holes. Dry, wet or even underwater. Cures in 30 minutes! Balustrade posts, fencing, sheds, structural steel columns, hand rails, seating, machinery hold down

Typical Properties

Properties	Typical Value
Appearance	Part A: Clear Honey Part B: White Powder Mixed: Dark Grey
Service Temperature Limits	-23°C to 60°C
Substrates	Solid Concrete, Solis Stone (Proof loading recommended), Solid Brick



Features & Benefits

- Non-drip formula for horizontal holes and overhead applications
- Glass becomes part of the aggregate
- No applicator
- Strong bond for extra security

Related Products

- | | |
|-------------------------|-----------------------|
| DynaDrill™ | Impact Wrench |
| Carbide Drill Bits | Wet/Dry Vacuum |
| Diamond Motor | Hole Cleaning Brushes |
| Diamond Core Drill Bits | Hole Cleaning Pump |

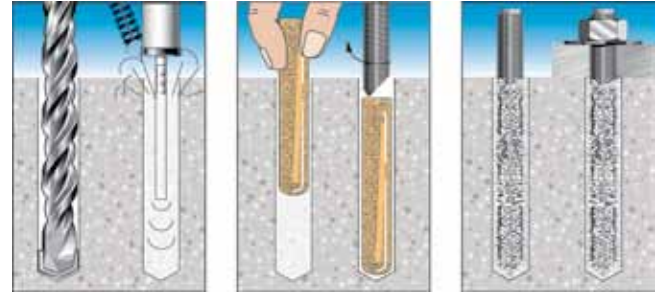
Trades & Applications

	Building Contractor	Civil Contractor	Steel Fabricator	Balustrade Contractor	Fitter	Seating Contractor
Threaded Studs	✓	✓	✓	✓	✓	✓

Installation in Solid Concrete

1. Drill or core hole to specified diameter and depth
2. Remove dust and debris by brushing and blowing 3 times each (If hole is wet or flooded, brush only)
3. Insert capsule into hole
4. Fit socket into drill and use to rotate and drive a ChemSet™ Anchor Stud into the hole
5. The stud rotation will mix the capsule contents
6. Wait until adhesive has fully cured before loading (see Loading Time chart below)

Refer to Technical Data Sheet and MSDS available from www.ramset.com.au, for precautions and further detailed installation instructions



Recommended Installation Temperatures

	Minimum	Maximum
Substrate	-5°C	43°C
Adhesive	-5°C	43°C

Working and Loading Time

Substrate Temperature (°C)	Cure / Loading Time (min)	
	Dry	Damp or Wet
≥ 20	20	40
10 to 20	30	60
0 to 10	60	120
-5 to 0	5 hours	10 hours

Hole Condition

Hole Condition	Suitable
Dry	Yes
Damp	Yes
Wet	Yes
Flooded	Yes
Drill Bit Type	
Carbide	Yes
Diamond Core	Yes
Hole Orientation	
Vertical Down	Yes
Horizontal	Yes
Vertical Up (Overhead)	Yes

ChemSet™ Maxima™ Anchoring Capsule

Description	Part No	Box Quantity
ChemSet™ Maxima™ Capsule M8	CHEM08	10
ChemSet™ Maxima™ Capsule M10	CHEM10	10
ChemSet™ Maxima™ Capsule M12	CHEM12	10
ChemSet™ Maxima™ Capsule M16	CHEM16	10
ChemSet™ Maxima™ Capsule M20	CHEM2024	6
ChemSet™ Maxima™ Capsule M24	CHEM2024	6

Description	Part No	Box Quantity
Hole Cleaning Pump	HCP	1
Hole Cleaning Pump High Volume	HCPHV	1
Hole Cleaning Brush 13 mm	HCBT13	1
Hole Cleaning Brush 20 mm	HCBT20	1
Hole Cleaning Brush 26 mm	HCBT26	1

ChemSet™ Maxima™ - Indicative Working Loads in 32 MPa Concrete with ChemSet™ Anchor Studs

Thread Size	Drilled Hole Ø (mm)	Min Hole Depth (mm)	Tightening Torque (Nm)	Min Edge Distance (mm)	Min Anchor Spacing (mm)	Max Tensile Load, N _a (kN)	Max Shear Load, V _{as} (kN)*
M8	10	80	10	35	50	6.5	4.4
M10	12	90	20	40	60	10.3	7.1
M12	14	110	40	50	75	15.3	10.5
M16	18	125	95	65	100	22.3	19.9
M20	24	150	180	80	120	35.7	29.9
M20	24	170**	180	80	120	40.5	29.9
M24	26	160	315	100	145	41.3	43.3
M24	26	210**	315	100	145	54.2	43.3

Bold working load values in tension are limited by steel. All other values limited by concrete and adhesive bond

* For shear acting towards a concrete edge please contact a Ramset Engineer for further design assistance

Shear values are for Grade 5.8 carbon steel.

** Use 1 x CHEM2024 & 1 x CHEM08

Working load capacity was derived from characteristic ultimate load capacity by applying the following factors:

Tension: Concrete = 3, Steel = 2.2

Shear: Steel = 2.5

The design engineer should ensure the structural element is capable of supporting these loads. Refer to Ramset™ Specifiers Resource Book for more information or explanation of technical data.