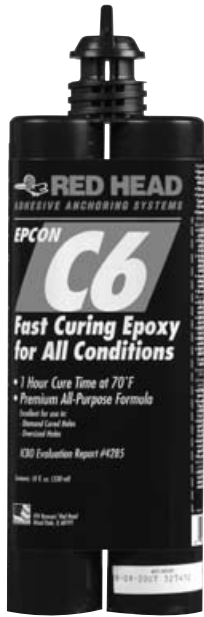


## Solid Concrete Anchoring



### Function

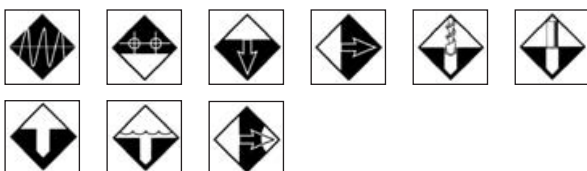
Epcon C6 Series are a chemical anchor system based on epoxy mortar. The two parts are dispensed and mixed in one action through a static mixing nozzle, which allows accurate mixing with no mess.

### Features and Benefits

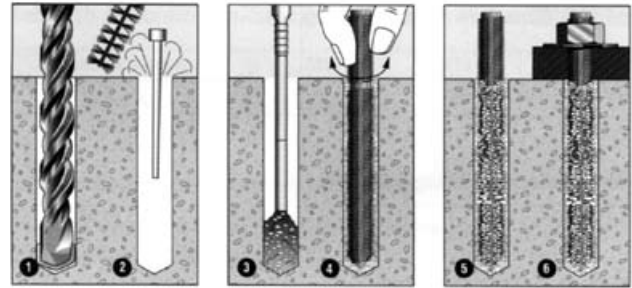
- Superior strength in shallow embedment.
- Close to edge, stress free anchoring.
- Suitable for use with zinc plated, hot dipped galvanized or stainless steel Chemset Anchor Studs.
- Resistant to cyclic loading and vibration.
- Resistant to alkaline conditions.
- Suitable for use in core drilled holes.
- Superior strength with grade 5.8 steel Chemset Anchor Studs.
- Suitable for underwater installations.

#### Principal Application

- Structural beams and columns
- Bottom plate and batten fixing
- Installing sills, handrails, balustrades and gates
- Racking
- Safety barriers
- Stadium seating
- Machinery and heavy plant hold down



### Installation



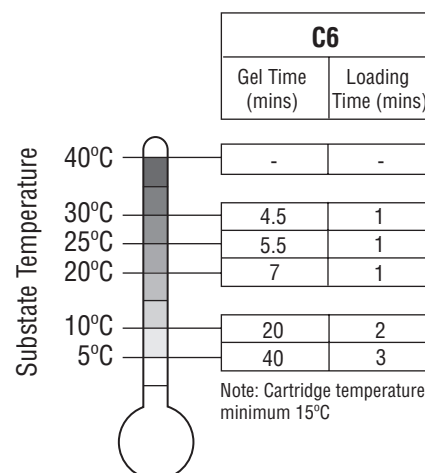
1. Drill recommended diameter and depth hole.
2. Clean hole with hole cleaning brush. Remove all debris using hole blower. Hole must be dry.
3. Insert mixing nozzle to bottom of hole. Fill hole to  $\frac{3}{4}$  the hole depth slowly, ensuring no air pockets form.
4. Insert Ramset Chemset Anchor Stud/rebar to bottom of hole while turning.
5. Epcon to cure as per setting times.
6. Attach fixture.

#### Installation temperature limits:

Substrate: 5°C to 40°C.  
Mortar: 18°C to 35°C

Load should not be applied to anchor until the chemical has sufficiently cured as specified.

### Setting Times



Installation and Performance Details: Using Chemset Anchor Studs (p18)

| Anchor size, $d_b$ (mm) | Installation details              |                                   |                                  |                               | Minimum Dimensions*       |                            |                                 | Performance (kN) |                                       |             |             |
|-------------------------|-----------------------------------|-----------------------------------|----------------------------------|-------------------------------|---------------------------|----------------------------|---------------------------------|------------------|---------------------------------------|-------------|-------------|
|                         | Drilled hole diameter, $d_h$ (mm) | Fixture hole diameter, $d_f$ (mm) | Anchor effective depth, $h$ (mm) | Tightening torque, $T_r$ (Nm) | Edge distance, $e_c$ (mm) | Anchor spacing, $a_c$ (mm) | Substrate thickness, $b_m$ (mm) | Shear            | Tension                               |             |             |
|                         |                                   |                                   |                                  |                               |                           |                            |                                 |                  | Concrete compressive strength, $f'_c$ |             |             |
|                         |                                   |                                   |                                  |                               |                           |                            |                                 | 20 MPa           | 32MPa                                 | 40 MPa      |             |
| M8                      | 10                                | 10                                | 80                               | 10                            | 30                        | 50                         | 100                             | <b>8.9</b>       | <b>11.8</b>                           | <b>13.7</b> | <b>14.3</b> |
|                         |                                   |                                   |                                  |                               |                           |                            |                                 | 4.4              | 6.5                                   | 6.5         | 6.5         |
| M10                     | 12                                | 12                                | 90                               | 20                            | 40                        | 60                         | 120                             | <b>14.1</b>      | <b>15.4</b>                           | <b>17.8</b> | <b>19.0</b> |
|                         |                                   |                                   |                                  |                               |                           |                            |                                 | 7.1              | 8.6                                   | 9.9         | 10.3        |
| M12                     | 14                                | 15                                | 110                              | 40                            | 50                        | 70                         | 140                             | <b>21.0</b>      | <b>22.4</b>                           | <b>25.9</b> | <b>27.6</b> |
|                         |                                   |                                   |                                  |                               |                           |                            |                                 | 10.5             | 12.5                                  | 14.4        | 15.3        |
| M16                     | 18                                | 19                                | 125                              | 95                            | 65                        | 100                        | 160                             | <b>39.7</b>      | <b>30.5</b>                           | <b>35.2</b> | <b>37.5</b> |
|                         |                                   |                                   |                                  |                               |                           |                            |                                 | 19.8             | 16.9                                  | 19.6        | 20.8        |
| M20                     | 24                                | 24                                | 150                              | 180                           | 80                        | 120                        | 190                             | <b>59.9</b>      | <b>43.8</b>                           | <b>50.6</b> | <b>53.9</b> |
|                         |                                   |                                   | 30.0                             |                               |                           |                            |                                 | 24.3             | 28.1                                  | 29.9        |             |
|                         |                                   |                                   | 220                              |                               |                           |                            | <b>59.9</b>                     | <b>52.8</b>      | <b>61.1</b>                           | <b>65.0</b> |             |
|                         |                                   |                                   |                                  |                               |                           |                            | 30.0                            | 29.3             | 33.9                                  | 36.1        |             |
| M24                     | 26                                | 28                                | 160                              | 315                           | 95                        | 145                        | 200                             | <b>86.8</b>      | <b>51.9</b>                           | <b>60.0</b> | <b>63.9</b> |
|                         |                                   |                                   | 43.4                             |                               |                           |                            |                                 | 28.8             | 33.3                                  | 35.5        |             |
|                         |                                   |                                   | 270                              |                               |                           |                            | <b>86.8</b>                     | <b>78.0</b>      | <b>90.2</b>                           | <b>96.1</b> |             |
|                         |                                   |                                   |                                  |                               |                           |                            | 43.4                            | 43.3             | 50.1                                  | 53.4        |             |

\* For shear loads acting towards an edge or where these minimum dimensions are not achievable, please use the simplified strength limit state design process to verify capacity.

\* For details on Working Load Limit and Reduced Characteristic capacities refer page 3.

|                               |
|-------------------------------|
| <b>Reduced Characteristic</b> |
| Working Load Limit            |

Description and Part Numbers

| Description           | Cartridge Size | Part No. |
|-----------------------|----------------|----------|
| C6-18 Cartridge       | 530 ml         | C6-18    |
| C6-18 Applicator Tool |                | E101NZ   |
| C6-18 9.5 mm Nozzles  | -              | E24      |
| C6-18 12.5 mm Nozzles | -              | E50      |
| C6-2 Cartridge        | 150 ml         | C6-2     |
| C6-2 Applicator Tool  |                | E400NZ   |
| C6-2 Nozzles          | -              | E12      |
| 12mm Mesh Sleeve      | -              | ISM12    |
| 16mm Mesh Sleeve      | -              | ISM16    |

Description and Part Numbers - Accessories

|                             |              |         |
|-----------------------------|--------------|---------|
| Cleaning Brush              | 10-14mm Hole | HCBT13  |
| Cleaning Brush              | 18-22mm Hole | HCBT20  |
| Cleaning Brush              | 22-26mm Hole | HCBT26  |
| Hole Cleaning Pump / Blower | -            | S065990 |