



C8 -450

Key Features

- Pure Epoxy
- Seismic Rated (rebar)
- Cracked concrete rated
- Fire Rated (rebar)
- ETAG001-5 option 1
- 100 years design life



100 YEARS DESIGN LIFE



Epcon™ C8 is a high performance pure epoxy that meets the highest international anchoring standards such as seismic and cracked concrete. Independently tested and assessed for 100 year design life under sustained loading means peace of mind for design engineers and building contractors alike.

Versatile Epcon™ C8 is suitable for extreme anchoring environments including core drilled holes, oversized diameters, flooded conditions and underwater.

Epcon™ C8 is ideal for applications requiring the highest bond strength and security.

Epcon™ C8 is suitable for use in a wide range of climate conditions. It is easy to dispense in cold weather and its long working time is ideal for deep embedment or hot climates.

Advantages

- High load performance, versatile Pure Epoxy Chemistry
- 100 year design life in sustained loading
- Seismic Design Approved
- Cracked concrete and Tension zone approved
- Suitable for Flooded Holes, Oversized diameter, Core drilled holes
- Easy cold weather dispensing epoxy
- Fire Rated for Rebar applications
- Certified for contact with Drinking water
- Electrical Insulator

Typical Applications

- Seismic Upgrade of concrete structures
- Tunnel smoke ducts and corbells
- Bridge construction and structural upgrades
- Road and rail construction
- Water infrastructure

Approvals

Certification	Approval Number / Report Number
European Technical Approval ETAG 001-5 Option 1	ETA 10/0309
European Technical Approval ETAG 001-5 Option 1	ETA 07/0189
CSTB Fire Test Report to ISO834	26007642/b
DIBt Report	Z-21.8-1866
WRAS Approval Contact with Drinking Water BS6920	MAT/LAB 622A
CSTB Seismic Applications Report	3/12-727
Bureau Veritas Electrical Resistance Test Report to CEI 60093	Nr 6010-1845
100 Year Design Life Swinburne University Report	5 September 2013

LOAD RANKING*

DRY

☆☆☆

FLOODED

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Rebar Size Range - ø8 to ø32

Threaded Bar Size Range - M8 to M30

Installation Temperature Range

Adhesive

5°C to 40°C

Substrate

5°C to 40°C

Anchoring Environments				
Hole Condition				
	Drilled holes	Cored holes	Flooded holes	Oversized holes
Anchoring Environment				
	Dynamic loading	Fire Rated	Seismic	Drinking water safe
Substrates				
	Solid Concrete			
Operating Temperature Range	<p>Long Term:</p> <p>-40°C</p>		<p>Max Short Term:</p> <p>50°C</p>	
			<p>80°C</p>	

Working and Loading Times			
Substrate Temperature	Working Time	Time to Full Load Capacity	
		Dry and Damp	Flooded and Underwater
5 to 9°C	20 min	30 hours	60 hours
10 to 19°C	14 min	23 hours	46 hours
20 to 24°C	11 min	16 hours	32 hours
25 to 29°C	8 min	12 hours	24 hours
30 to 39°C	5 min	8 hours	16 hours
40°C	5 min	6 hours	12 hours

Range and Order Numbers			Related Items	
Pack Size	Order Number	Box Qty	Applicator	Mixing Nozzle
450 ml	C8-450	12	E108	ISNE

For drilling dimensions and full installation details, refer page 34

* NOTE: Load Index is the relative load compared with other Chemical Anchoring products in the Ramset range and is intended to assist with product selection. Load Index is not intended to assist with load design. For load capacity and design information, consult the Ramset Specifiers Resource Book available from Ramset in hard copy or download from the website