

UNICELL ELECTROLYTIC CELLS

Derakane Epoxy Vinyl Ester Resins – Case History



Year

Over a thousand units were installed in 1999 and 2000.

Fabricator

CTI ANCOR in Santiago, Chile, Ghent, Belgium, and Hermosillo, Mexico.

Fabrication

By polymer concrete casting using a customer designed Bisphenol A based DERAKANE epoxy vinyl ester resin.

Technical Data

Cells typically 3 to 10 m (10 to 33 ft) long, 1.3 m (4 ft) wide and 1.6 m (5 ft) high.

Typically weight is ca. 3 000 to over 10 000 kg (6 600 to 22 000 lbs).

The Penoles cell displayed in this case is 4.6 (15 ft) m long, 1.2 m (4 ft) wide and 1.2 m high. Its weight is 11 000 kg (24 000 lbs).

Service Conditions

Typical composition of the electro refining chemicals is depending on the composition of the ore. Copper electro refining production occurs in sulfuric acid based electrolyte:

- 160 to 200 g/l (21 to 27 oz/gal) of sulfuric acid,
- 40 to 50 g/l (5 to 7 oz/gal) copper,
- 0.02 to 0.05 g/l (0.002 to 0.006 oz/gal) chloride
- Temperature 65°C (150°F).

Last update in 2001.

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