

POLYMER CONCRETE ELECTROLYTIC CELLS

Derakane Epoxy Vinyl Ester Resins – Case History



Location / Year

Over 1000 units supplied to African copper and zinc plants since 1975.

Fabricator

Wallcrete Lfd., Zambia.

Fabrication

Cells are fabricated from a polymer concrete based on **DERAKANE epoxy vinyl ester resin**. Glass reinforced plastic pipes fabricated with DERAKANE are used for inlet/outlet of the cells.

Service Conditions

Electro winning of copper: the electrolyte contains mainly 150 g/L (20 oz/gal) of sulfuric acid; 30 g/L (4 oz/gal) copper sulfate at 65°C (150°F).

Technical Data

Length : 3.85 m (12.6 ft)

Height : 1.90 m (6.2 ft) with 8 cm (3.2 in) thickness

Width: 1.03 m (3.3 ft)

Weight : 3500 kg (7700 lbs)

Design / Comment

The system includes a **DERAKANE 411** based pigmented top-coat for the cells, which can additionally be used for flooring, structural steel frame protection, work tanks and drains to prevent acid vapor corrosion.

Last update in 1987.

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