



# DELTA ACID TILES

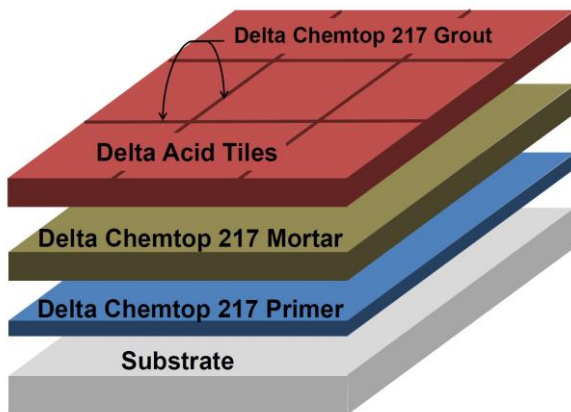
Secondary Containment Lining



## DESCRIPTION

As a secondary containment lining for corrosive acid storage facilities.

## SYSTEM DESIGN



## USES

- ❖ Ideal for use in areas where exposure to most acids, corrosive chemicals and organic solvents are frequent.
- ❖ For protection of surfaces against dusting, solvent and strong chemical attack.
- ❖ Typical applications include vessel linings, chimney linings, floor and pits, and secondary containment.

## BENEFITS

- ❖ Excellent chemical resistance.
- ❖ High strength, low porosity.
- ❖ Heat resistant
- ❖ Good abrasion resistance
- ❖ Long service life
- ❖ **HACCP certified to Singapore Standard** for use in facilities covered by HACCP accreditation



## COLOR

Red

## FINISH

Low sheen

## SURFACE PREPARATION

Substrates to be coated must be structurally sound, clean and free from any contamination. Surface preparation by captive shot blasting, scarifying, diamond disc grinding. For oil/grease contaminated areas, use chemical degreaser followed by thorough water washing and drying. For other specific application, consult DELTA INTERCONTINENTAL P/L.

## APPLICATION

- ❖ First coat of Delta Chemtop 217 @ 0.30kg/m<sup>2</sup>.
- ❖ Body coat of Delta Chemtop 217 Mortar @ 12kg/m<sup>2</sup> (5mm thick).
- ❖ Lay Delta Acid Tiles onto the still wet mortar.
- ❖ Fill Delta Acid Tiles pointers with Delta Chemtop 217 Grout (1.92kg set yield 1.33lit).

**Delta Intercontinental Pte Ltd**  
38 Woodlands Industrial Park E1, #06-04  
Singapore 757700

Tel : +65 6219 0700 Fax: +65 6219 2822  
Email : [deltaintercon@singnet.com.sg](mailto:deltaintercon@singnet.com.sg)  
Website : [www.deltaintercon.com.sg](http://www.deltaintercon.com.sg)



# DELTA ACID TILES

## Secondary Containment Lining

*Note: please refer to data sheets of Delta Chemtop 217 and Delta Chemtop 217 Mortar for more details.*

Recoating time – Interval between coats: 8 hours.  
Maximum recoating time: 24 hours

### TECHNICAL AND APPLICATION DATA

Bulk Density BS EN 993-1	2.40T/m <sup>3</sup>
Water Absorption BS EN 772-7	≤ 2.0%
Cold Crushing Strength BS EN 993-5	> 150N/mm <sup>2</sup>
Modulus of Rupture BS EN 993-6	> 20N/mm <sup>2</sup>
Thermal Conductivity BS 1902 Sec. 5.5	1.7w/m <sup>2</sup> k
Thermal Expansion Coefficient BS 1902 Sec. 5.3	6 x 10 <sup>-6</sup> /°k
Acid Solubility BS 784 BS EN 993-16	< 0.8% wt < 6% wt
Delta Acid Tiles size	190mm x 190mm x 15mm thick
Chemical Resistance	See list attached

### STORAGE CONDITIONS AND SHELF LIFE

Delta Acid Tiles has a long shelf life. Other components like Delta Chemtop 217 and Delta Chemtop 217 Mortar have a shelf life of 12 months in original unopened packing, stored in dry, enclosed place without exposure to direct sunlight and temperature between 15°C to 35°C, protected from frost.

### MAINTENANCE

To maintain the appearance of the floor, all spillage must be removed immediately and clean regularly using rotary scrubber, wash and vacuum in conjunction with suitable detergents and waxes.

### PACKAGING

- Delta Acid Tiles: 15pcs/box
- Delta Chemtop 217  
Comprises of : Part A: 3.5kg  
Part B: 2.1kg
- Delta Chemtop 217 Mortar  
Comprises of : Part A: 3.5kg  
Part B: 2.1kg  
Part C: 28.0kg
- Delta Chemtop 217 Grout  
Comprises of : Part A: 1.0kg  
Part B: 0.6kg  
Part C: 0.32kg

### SAFETY

Although Delta Acid Tiles is non-combustible, other components like Delta Chemtop 217 and Delta Chemtop 217 Mortar contains epoxy resin. Ensure adequate ventilation and avoid inhaling vapours when working. Always use with suitable personal protective equipment.



# DELTA ACID TILES

Secondary Containment Lining

## Chemical Resistance List

Chemical	Result
Acetic Acid (10%)	No effect
Acetic Acid (25%)	No effect
Acetic Acid (40%)	No effect
Acetic Acid (99%)	No effect
Brine (Saturated sodium chloride)	No effect
Calcium Chloride (50%)	No effect
Calcium Hydroxide (Saturated)	No effect
Citric Acid (20%)	No effect
Citric Acid (60%)	No effect
Detergent (Alkaline)	No effect
Formic Acid (40%)	No effect
Formic Acid (70%)	No effect
Formic Acid (90%)	No effect
Formic Acid (99%)	No effect
Gasoline	No effect
Hydrochloric Acid (10%)	No effect
Hydrochloric Acid (37%)	No effect
2-propanol (99%)	No effect
Jet Fuel	No effect
Kerosene	No effect
Methanol (99%)	No effect
Methylene Chloride (99%)	No effect
Methyl Ethyl Ketone (99%)	No effect
Methyl tert-butyl ether	No effect
Motor Oil	No effect
Nitric Acid (5%)	No effect
Nitric Acid (30%)	No effect

Chemical	Result
Nitric Acid (65%)	No effect
Phosphoric Acid (5%)	No effect
Phosphoric Acid (40%)	No effect
Phosphoric Acid (50%)	No effect
Phosphoric Acid (85%)	No effect
Potassium Hydroxide (50%)	No effect
Sodium Chloride (Saturated)	No effect
Sodium Hydroxide (20%)	No effect
Sodium Hydroxide (32%)	No effect
Sodium Hydroxide (50%)	No effect
Sodium Hypochlorite (15%)	No effect
Sulfuric Acid (5%)	No effect
Sulfuric Acid (30%)	No effect
Sulfuric Acid (50%)	No effect
Sulfuric Acid (98%)	No effect
THF (99%)	No effect
Toluene (99%)	No effect
Distilled Water	No effect
White Spirit	No effect
Xylene (99%)	No effect

Test	Open spot Duration
Sulfuric acid (50%)	2 hours
Sulfuric acid (98%)	2 hours
Sulfuric acid (50%)	6 hours
Sulfuric acid (98%)	6 hours
Sulfuric acid (98%)	24 hours