



DELTA ACID TILES

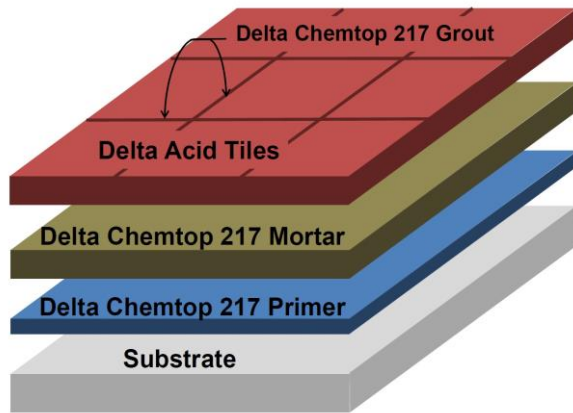
Secondary Containment Lining



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

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/m².
- ❖ Body coat of Delta Chemtop 217 Mortar @ 12kg/m² (5mm thick).
- ❖ Lay Delta Acid Tiles onto the still wet mortar.
- ❖ Fill Delta Acid Tiles pointers with Delta Chemtop 217 Grout (1.88kg set yield 1.3lit).

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

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TECHNICAL AND APPLICATION DATA

Bulk Density BS EN 993-1	2.40T/m ³
Water Absorption BS EN 772-7	≤ 2.0%
Cold Crushing Strength BS EN 993-5	> 150N/mm ²
Modulus of Rupture BS EN 993-6	> 20N/mm ²
Thermal Conductivity BS 1902 Sec. 5.5	1.7w/m ² k
Thermal Expansion Coefficient BS 1902 Sec. 5.3	6 x 10 ⁻⁶ /°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

1. Delta Acid Tiles: 15pcs/box
2. Delta Chemtop 217
Comprises of : Part A: 3.8kg
Part B: 2.3kg
3. Delta Chemtop 217 Mortar
Comprises of : Part A: 3.8kg
Part B: 2.3kg
Part C: 28.0kg
4. Delta Chemtop 217 Grout
Comprises of : Part A: 1.0kg
Part B: 0.6kg
Part C: 0.28kg

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.



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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