



DELTA CHEMTOP MF

Heavy Duty Self-Smoothing Polyurethane Floor



DESCRIPTION

A flow-applied, self-smoothing, polyurethane flooring system with a smooth matt surface finish.

USES

- ❖ Chemical resistant floor for chemical process, containment area and wash down rooms.
- ❖ Hygienic floor for kitchen, wetfood, beverage processing and packaging plants, pharmaceutical, electronic and chemical plants.
- ❖ Mechanically durable floor for loading docks and warehouses.

BENEFITS

- ❖ High impact and abrasion resistance.
- ❖ High chemical resistance.
- ❖ Easy to clean and sterilize.
- ❖ **HACCP certified to Singapore Standard** for use in facilities covered by HACCP accreditation

COLOR

Available in a range of standard colours

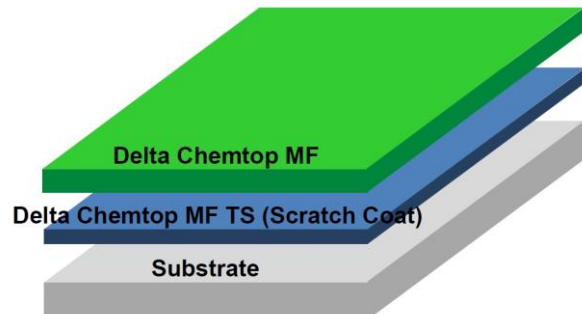
FINISH

Matt

SURFACE PREPARATION

Substrates will normally be concrete or polymer modified screeds with minimum compressive strength of 25N/mm² and pull-off strength of 1.5N/mm². Preferably vacuum shot blast the surface with non-impact method. Concrete surface planer, grit blasting and surface grinding or other mechanical means until a profile is evident can be satisfactory. Substrate must be clean and free from any contamination. For other specific application, consult DELTA INTERCONTINENTAL P/L.

APPLICATION



- ❖ Scratch coat of Delta Chemtop MF TS @ 1.9kg/m² (average 1mm thick).
- ❖ Body coat of Delta Chemtop MF @ 5.7kg/m² (average 3mm thick).

Mixing – Mix Part A and Part B thoroughly for 10 seconds. Add Part C and mix content thoroughly for 1 minute. Mixing is done by using high speed power mixer (750 rpm).

Tools – Applied using notched rake, notched trowel, spike roller.

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

TECHNICAL AND APPLICATION DATA

Compressive Strength	50 N/mm ²
Flexural Strength	21 N/mm ²
Dynamic E-Modulus	14,500 N/mm ²
Tensile Strength	7 N/mm ²
Concrete Adhesion	Concrete fails
Taber Abrasive Resistance (1000g, 1000rpm)	0.1g
Coefficient of Thermal Expansion	3.5 x 10 ⁻⁵ °C
Density	1.9 kg/mm/m ²
Impact Resistance	< 0.5 mm (BRE Screed Tester)
Service Temperature	3mm: -5 °C to 80 °C 6mm: -5 °C to 90 °C
Chemical Resistance	See list attached

Recommended dry film thickness	4mm
No. of coats	1
No. of components	3
Mixing Ratio (by weight)	3 : 3 : 14 Part A : B : C
Pot Life	18 mins @ 30°C 25 mins @ 15°C 35 mins @ 8°C
Temperature Resistance	-5°C to 80°C @ 3mm

STORAGE CONDITIONS AND SHELF LIFE

The shelf life of Part A and Part B is 12 months; Part C is 6 months in original unopened packing, stored in dry enclosed place without exposing to direct sunlight and at temperature between 10°C to 32°C. Protect 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

20 kg set

Comprises of: Part A – 3 kg
Part B – 3 kg
Part C – 14 kg

SAFETY

Some components of this product may be hazardous during mixing and application. Always use with suitable personal protective equipment. Close container tightly after use. Keep out of reach of children.

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Chemical Resistance List

Chemical	Result	Chemical	Result
Acetic Acid (10%)	No effect	Potassium Hydroxide (50%)	No effect
Acetic Acid (25%)	No effect	Sodium Chloride (Saturated)	No effect
Acetic Acid (40%)	No effect	Sodium Hydroxide (20%)	No effect
Acetic Acid (99%)	Faint mark (discoloration)	Sodium Hydroxide (32%)	No effect
Ammonium Hydroxide (25%)	No effect	Sodium Hydroxide (50%)	No effect
Brine (Saturated sodium chloride)	No effect	Sodium Hypochlorite (15%)	Faint mark (stain)
Calcium Chloride (50%)	No effect	Sulfuric Acid (5%)	No effect
Calcium Hydroxide (Saturated)	No effect	Sulfuric Acid (30%)	No effect
Citric Acid (20%)	No effect	Sulfuric Acid (50%)	No effect
Citric Acid (60%)	No effect	Sulfuric Acid (98%)	Severe mark (stain)
Detergent (Alkaline)	No effect	THF (99%)	No effect
Formic Acid (40%)	Faint mark (discoloration)	Toluene (99%)	No effect
Formic Acid (70%)	Faint mark (discoloration)	Distilled Water	No effect
Formic Acid (90%)	Severe mark (discoloration)	White Spirit	No effect
Formic Acid (99%)	Severe mark (discoloration)	Xylene (99%)	No effect
Gasoline	No effect		
Hydrochloric Acid (10%)	No effect		
Hydrochloric Acid (37%)	Faint mark (stain)		
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%)	Faint mark (stain)		
Nitric Acid (30%)	Severe mark (stain)		
Nitric Acid (65%)	Severe mark (stain)		
Phosphoric Acid (5%)	No effect		
Phosphoric Acid (40%)	No effect		
Phosphoric Acid (50%)	No effect		
Phosphoric Acid (85%)	No effect		