



DELTA CHEMTOP MF AS

Anti Static Polyurethane Flooring System

DESCRIPTION

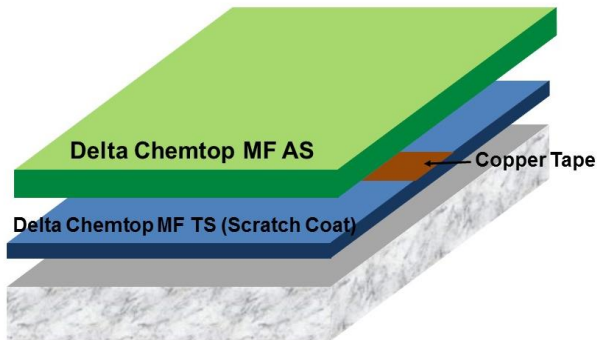
A self – smoothing polyurethane topping with thickness from 3mm that offer antistatic, heavy duty and chemical resistance properties.

- ❖ Pharmaceutical production
- ❖ Ammunition plants, military arsenals, powder ammunition risk areas

COLOR

Available in a range of standard colours.

SYSTEM DESIGN



FINISH

Matt

SURFACE PREPARATION

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

BENEFITS

- ❖ Eliminates electrostatic discharge from personnel vehicles and equipment.
- ❖ High density system with maximum wear, abrasion and impact resistance.
- ❖ Excellent chemical resistance.
- ❖ User friendly. No solvents odour during application.
- ❖ Easy to clean and maintain.
- ❖ **HACCP certified to Singapore Standard** for use in facilities covered by HACCP accreditation

APPLICATION

- Apply scratch coat of Delta Chemtop MF TS @ 2.0kg/m² (average 1mm thick).
- Lay copper tape to the cured scratch coat at 1 meter grid square.
- Connect the copper tape to the earth point.
- Finishing coat of Delta Chemtop MF AS @ 5.7kg/m² (average 3mm thick).

USES

- ❖ Electronics and semi-conductor plants
- ❖ Electronic device handling areas
- ❖ Clean rooms

Mixing – before mixing, stir Part A, then mix Part A and Part B thoroughly for 10 seconds until uniform. Add Part D and further mix for 30 seconds. Then add Part C and mix content thoroughly for 1 minute. Mixing is done by using slow speed power mixer (750 rpm).

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

Recoating time – Interval between coats: 8 hours.

Maximum recoating time: 24 hours.

TECHNICAL AND APPLICATION DATA

Compressive Strength	50 N/mm ²
Tensile Strength	7 N/mm ²
Flexural Strength	21 N/mm ²
Dynamic E-Modulus	14,500 N/mm ²
Concrete Adhesion	Concrete fails
Thermal Conductivity	0.9 W/m°C
Taber Abrasive Resistance (1000g loading, 1000rpm)	0.1 g
Coeff. Thermal Expansion	3.5 x 10 ⁻⁵ °C
Density	1.9 kg/mm/m ²
Impact Resistance (BRE Screed Tester)	<0.5mm
Temperature resistance	-5 to 80°C at 3mm -5 to 90°C at 6mm
Resistance to Earth (IEC 61340)	<u>Conductive version:</u> < 5 x 10 ⁴ Ohm (<0.05 MΩ) <u>Anti Static version:</u> 5 x 10 ⁴ to 10 ⁷ ohm

Recommended dry film thickness	Minimum 4mm
No of coats	2
No. of components	4
Pot Life	18 mins @ 30°C

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.

STORAGE CONDITIONS AND SHELF LIFE

All components of Delta Chemtop MF AS have a shelf life of 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.

PACKAGING

18 kg set.

Comprises of: Part A - 3kg

Part B - 3kg

Part C – 12kg

Part D – Carbon fiber

SAFETY

Product contains polyurethane resin and diisocyanate. Do not take internally. May irritate eyes and skin. Ensure adequate ventilation and avoid inhaling vapours. Always use with suitable personal protective equipment. For more information on safety, refer to the product safety data sheet.



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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%)	Faint mark (discoloration)
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%)	Faint mark (discoloration)
Formic Acid (70%)	Faint mark (discoloration)
Formic Acid (90%)	Severe mark (discoloration)
Formic Acid (99%)	Severe mark (discoloration)
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

Chemical	Result
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
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%)	Faint mark (stain)
Sulfuric Acid (5%)	No effect
Sulfuric Acid (30%)	No effect
Sulfuric Acid (50%)	No effect
Sulfuric Acid (98%)	Severe mark (stain)
THF (99%)	No effect
Toluene (99%)	No effect
Distilled Water	No effect
White Spirit	No effect
Xylene (99%)	No effect