EPITHANE CPS (MF)

A SELF - SMOOTHENING POLYURETHANE TOPPING

DESCRIPTION

A flow applied, self-smoothening 3 component polyurethane topping for thin layer application and repairs in matt finish. As a new topping over old or wore out polyurethane floors.

USES

Hygienic floor for kitchen, wet food, clean rooms, beverage processing and packaging plants. Chemical resistance floor for chemical process, containment area and wash down rooms. Thermal shock resistance floor for freezers, refrigerators, and oven installed spaces. Mechanically durable floor for loading docks and warehouses.

BENEFITS

- Excellent chemical resistance.
- Resists bacterial growth, fungi, mould and mildew.
- Easily cleaned and maintained providing a smooth, seamless surface.
- High-density systems with maximum wear, abrasion and impact resistance.
- User-friendly, NO solvent odor during installation.
- One of the fastest 'turn a round time' polymer modified product which reduces cost.
- High temperature resistance up to 80°C at 6mm thickness.
- Seamless without joints for optimum sanitation and hygienic finish.

Meets Japanese Standard JISZ 2801:2000, 5.2.

TECHNICAL DATA

Density, kg/mm/m^2	1.9
Compressive Strength	45N/mm^2
Tensile strength	10N/mm^2
Flexural strength	18N/mm^2
Dynamic elastic modulus	14500 N/mm^2
Adhesive strength	Concrete failure
Thermal conductivity	0.9W/m°C
Taber abrasion resistance	0.1 gms / 1000 gms loading 1000 rpm
Co efficient of thermal expansion, °C	3.5 X 10-5°C
Impact resistance	< 0.5 (BRE Screed tester) mm
Temperature resistance	Follow behind
Mixing Ratio	3:3:14 by weight of Part A & Part B & C
Pot life	18 min. at 30°C; 25 min. at 15°C; 35 min. at 8°C

TYPE

INDUSTRIAL FLOORING

ADVANTAGES

ABRASION RESISTANT | UV RESISTANT | CHEMICAL RESISTANT | BACTERIA RESISTANT

COVERAGE (PER COAT)

2.3 kg/m^2/mm

COATINGS

3-6 mm

COMPONENT

3 PART

EPITHANE CPS (MF)

A SELF - SMOOTHENING POLYURETHANE TOPPING

COLOUR

Standard **EPITHANE CPS (MF)** colors.

EPITHANE CPS (MF) floor system is functionally formulated to withstand severe chemical, mechanical, and thermal damages.

Light yellowing of the floor surface exposed to UV may occur especially in light colors (eg. light grey) without affecting its functionality.

SURFACE REQUIREMENT & PREPARATION

Substrate will normally be concrete or polymer modified screeds with minimum compressive strength 25 N/mm^2 and pull-off strength 1.5N/mm^2.

If substrate moisture exceeds 4%, use DURAFLOR MB 21 as a moisture barrier.

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, free from dust, oil, water, paint residues, loose constituents or any contaminants. Prepare grooves, 5mm wide x 5mm deep, at all edges, bay joints columns, doorways, and drains for anchoring purpose.

MIXING

Add Part A, Polyol, to a clean mixing drum.

Add Part B to the drum and mix for 10 second until uniform using a helical spinner.

Add the pigmented Part C powder and further mix for 1 minute to achieve a fully homogenized consistent mortar.

Scrap out residue of previous mix from the sides of the drum and discard before the next pack, stir mix well both contents with high power mixer 750rpm.

APPLICATION

Apply **EPITHANE CPS (MF)** within its pot life. Spread the composite matrix to thickness of 1-3mm with pin rake or notched squeegee set to the correct depth. Immediately release air by spike rolling.

1st Coat / Primer

All **EPITHANE CPS (MF)** floor should be applied on to cured EPIPRIME PU.

TEMPERATURE

Temperatures should not fall below 5°C within the 24 hours after application.

Service temperature is depending on thickness but may be up to 60°C on intermittent splash. Not for immersion.

MAINTENANCE

Regular cleaning and maintenance will prolong the life of all resin floors, enhance the appearance and reduce the tendency to retain dirt.

CURING

	25°C	35°C
Foot traffic. hr	10	8
Light traffic. hr	24	18
Full traffic. hr	28	24
Foot cure. days	7	5

SUBSTRATE MOVEMENT

All moving joints must be carried through the **EPITHANE CPS (MF)** and properly sealed. Construction joint, sand cracks maybe covered but if substrate movement occurs, the **EPITHANE CPS (MF)** will reflect the crack.

CLEANING

Clean all tools with washing thinner or other solvent prior to hardening of material taking a hardest. Small unreacted Part B in container to be decontaminated with a 5% solution of washing soda (sodium carbonate) prior to disposal.

After material has set it is virtually impossible to get off and must wear off over time.

EPITHANE CPS (MF)

A SELF - SMOOTHENING POLYURETHANE TOPPING

CHEMICAL RESISTANCE

EPITHANE CPS (MF) will resist spillages of :

- Dilute and concentrated acids: hydrochloric, nitric, phosphoric and sulphuric.
- Dilute and concentrated alkalis, including sodium hydroxide to 50% concentration.
- Most dilute and concentrated organic acids.
- Fats, oil and sugar.
- Mineral oils, kerosene, gasoline and brake fluids.
- Most organic solvents.

Resistance is maintained in many cases to 80°C, which should be regarded as the maximum service temperature.

COVERAGE AREA

EPITHANE CPS (MF) is applied at a rate of 2.3 kg/m^2 per 1mm thickness coat. A minimum thickness of 3-6 mm can be applied.

PACKAGING

EPITHANE CPS (MF) 20 kg/set (Part A: 3 kg, Part B: 3kg, Part C: 14kg)

HEALTH & SAFETY

Some of the components of this product may be hazardous during mixing and application. Always use with suitable protective gears. Close container tightly after use.

Keep out of reach of children.

SCOPE OF REGISTRATION AND STANDARDS

Manufacture of Waterproofing materials. Compliance with ASTM technical standards and AS 3740 - 2004 Australia Standard. SIRIM certification is available for selected products upon request, subject to applicable testing and certification requirements.

Made In Malaysia

CHEMIND

MANUFACTURER :
CHEMIND INDUSTRIES SDN. BHD. (468913-T)
NO. 8, JALAN MERANTI JAYA 16, TAMAN PERINDUSTRIAN MERANTI JAYA,
47100 PUCHONG, SELANGOR DARUL EHSAN, MALAYSIA.
TEL: 603-8066 4128 FAX: 603- 8051 3128

SIRIM

ASTM INTERNATIONAL Standards Worldwide

CHEMIND AUSTRALIAN TECHNOLOGY

REF: PDS10310725