

Four Component Polyurethane Cementitious, Rough Finish & Flat Flooring, Topping in a Range of Colors and Having a Matt Finish, Heavy Duty Floor

Thickness Require: 6.00-7.00 mm for Heavy Duty Floor
Coverage Quantity: 6.00mm thick/13.8 kg/m²

Application Modified Polymer Polyurethane Resin with Cementitious & Silica Sand, High performance chemical resistance and mechanical properties. Highly fluid, easy processing, short curing time's properties even at low temperatures (as of 5°C) and high humidities. (high hardness and flexibility values) and color stability.

Used Area Breweries, Commercial Kitchens, Dairy Industries, Food & Drink Industries, Palm Oil Industries, Pharmacy Industries & Housing Commercial Building

Advantage & Properties To provide a light-medium duty, hard wearing with self-smoothing flat floor finish with exceptional chemical resistance. Typical areas for use are wet and dry process areas where the floor is subjected to impact and chemical attack. The specific advantage offered by Polyurethane Topping Mortar Layer. Very good adhesion, the system recommended for concrete.

Ultraviolet Resistance: Not reflection to eye and no yellowing after 100 hours.

- ❖ Adhesion is always good on mineral substrates surfacing.
- ❖ Good in no dust from substrate coatings easy to clean, improved visibility.
- ❖ Excellent of chemical resistance, Good on hygienic floor and wall surfacing.
- ❖ Adhesion promoting primers between old with new concrete.
- ❖ Non-toxic, the coating have been cured applied on health floor.



Food Industries



Drinking Factory

Colours

Mid Grey, Mustard, Red, Cotta Red, Green, Buff & Cream.
 Other specials colour custom made is available.



Cream



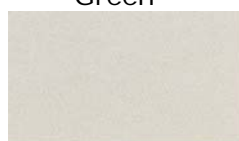
Green



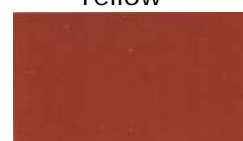
Yellow



Grey



Light Grey



Red

Build Guard SF3 is not color stable and may discolor on ageing; this is more noticeable in light color. This will not impair its chemical resistance or durability.



Dairy Farm Factory



Medicine Factory



Medicine Packaging Factory



Raw Material Food Industrial

Preparations

New Concrete Floor Slab & Existing Concrete Floor must cured at least 28 days and have with minimum Compressive Strength of 5,000 psi [35 Mpa]. Those cement slurry, plaster droppings, etc. must be remove, the surface of concrete free of oil, grease, and other loose particles and contamination's.

Mixing:

- Add Part B and Part C2 (Pigment Pack) into mixing pail. Mixing with blender for 30 sec.
- Add Part A mixing with blender for 30 seconds and Part C1 into mixing pail. Allow the contents to mix until aggregate is thoroughly "wet out" for 30 seconds.

Mix materials with low speed drill and paddle for approximately 2-5 minutes. Insure a thorough mix. Never mix more material than can be used in thirty (30) minutes. Do not apply PU or Epoxy when ambient or temperatures are below 50 °F

Method of Application

- Step 01 Scarification by milling machine or sand-blasted to SS 2 Standard and de-rust to ST 2 Standard 50mm rich primer is recommended for priming, vacuum all dust and clean with water.
- Step 02 Apply layer of **Epo Bond Primer** by roller or spray, and allow drying for 12 hours.
- Step 03 Apply **Build Guard RF8** by comb steel trowel with spike roller and screeds exhibit a very flat finish can be kept in spotless hygienic condition and are of attractive appearance. System thickness usually varies from 3.00mm thick, and allow to dry for 12 hours.

If Require Special Glossy or Orange Peel Finsh

- OR Step 04 Apply layer of **PUR Guard FC** [Glossy Finish System Smooth or Orange Peel Type] by roller or spray, and after 12 hours the finished coat has been cured.

Physical Properties

	5°C [winter]	10°C [winter]	25°C [Tropical]
Pot Life	25 min	20 min	15 min
Light Traffic	48 hrs	36 hrs	24 hrs
Full Traffic	120 hrs	72 hrs	48 hrs
Fully Cured	42 days	42 days	28 days

[Temp. Tested at 23 °C]

Compressive Strength	>55N/mm²	
Flexural Strength	>21N/mm²	
Tensile Strength	>7N/mm²	
Dynamic E-Modulus	>14000N/mm²	
Coeff. Thermal Expansion	> 3.60 x 10⁻⁵ °C⁻¹	
Thermal Conductivity	0.9W/m °C	
Surfaces Resistivity	2 x 10¹¹ Ω ohms	
Water Adsorption	0 ml	
Surface Spread of Flame	Class 2	
Abrasion Resistance	1410mg	[Taber H22]
	120mg	[Taber CS17]
Bond Strength	Cohesive strength of concrete impact Resistance >0.5mm (BRE Screed tester) Temperature resistance: -5 to + 60°C	

Packaging

20kg packs, consisting of Base A, Hardener B, Filler C1 & Pigment C2
Part A
Part B
Part C

Coverage Estimate

If require of thick, 6.00 mm, 13.80 kg/m²

Chemical Resistance

Excellent resistance to sugars and most acids (organic & inorganic).
Consult **LaMaCo Malaysia** for more detailed test data.

Performance against more common chemicals :-

	Excellent	Good	Limited
Hydrochloric Aid 10%	√		
Sulphuric Aid 25%		√	
Citric Acid 10%	√		
Acetic Acid 5%	√		
Lactic Acid 10%	√		
Acetone			√
Methanol			√
Sugar Syrups	√		
Caustic Soda (Conc)	√		
Petrol	√		
Oil	√		
Detergents	√		

Storage & Shelf Life Stored unopened in dry conditions at <25°C, shelf life will be 6 months minimum.

Further Information Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements.

LaMaCo Malaysia has a wealth of technical & practical experience built up over many years in our pursuit of excellence in flooring and concrete technology. Clients are welcome to call our Technical Desk or visit our Technology Centre.



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