

Polyurethane Grade of Semi-Soft or Soft Types with Elastomeric Self-Leveling Smooth Floor, for Multipurpose Hall, Indoor or Outdoor Sport Flooring

**Polyurethane Grade for Outdoor & Indoor # Self-Leveling Smooth/Flat, Semi-Soft Type
VOC Free, Solvent Free**

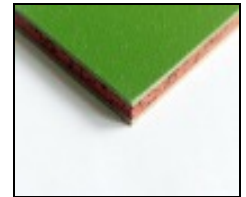
**Polyurethane Grade for Outdoor & Indoor # Self-Leveling Smooth/Flat, Soft Type
VOC Free, Solvent Free**



PUR Guard SF, Sport Floor Install on Indoor

Type of System PUR Guard 250 HF Semi-Soft Indoor/Outdoor Sport Floor

Sub Base 100-150mm thick Reinforced Concrete or 075-100mm thick Asphalt Concrete
Base Layer 9mm thick EPDM Granules + PU Adhesive
Top Layer 2mm thick PUR Guard 250 Smooth Finish



Type of System PUR Guard 250 MF Semi-Soft Indoor/Outdoor Sport Floor

Sub Base 100-150mm thick Reinforced Concrete or 075-100mm thick Asphalt Concrete
Base Layer 9mm thick Rubber Granules + PU Adhesive
Top Layer 2mm thick PUR Guard 250 Smooth Finish



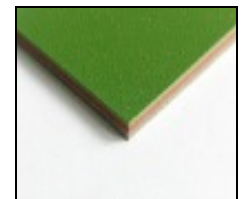
Type of System PUR Guard 250 SF Soft Indoor/Outdoor Sport Floor

Sub Base 100-150mm thick Reinforced Concrete or 075-100mm thick Asphalt Concrete
Base Layer Direct into Reinforced Concrete Base
Top Layer 2-3mm thick PUR Guard 250 Smooth Finish



Type of System PUR Guard 250 PF Semi-Soft Indoor/Outdoor Sport Floor

Sub Base 100-150mm thick Reinforced Concrete or 075-100mm thick Asphalt Concrete
Base Layer 5mm thick Rubber Dust + Epoxy Adhesive
Top Layer 2mm thick PUR Guard 250 Smooth Finish



Rubber Dust



Rubber Granules



EPDM Granules



Rubber Granule Mat



EPDM Granule Mat

**PUR Guard 250 Finish Layer without Base Layer****PUR Guard 250 Finish with Base Layer****PUR Guard 400T Finish****PUR Guard 400T Finish**

PUR GUARD SF

Type of Sports Surface

Multi Purpose all weather cushioned outdoor or indoor sports surface with point elastic and dimensionally stable properties.

Aim

Suitable for jogging tracks and all outdoor or indoor sports, refer **PUR Guard SF 250** System Selection Chart.

Description of the Sports Surface

Porous and spike resistant, installed by cast-in-situ method with UV resistant EPDM rubber bonded with moisture cured Polyurethane material

1. The Re-Topping system for old synthetic sports floors or new synthetic sports floors.
2. The system is designed to provide a strong overlay for an existing cracked, damaged or just worn out sports floor, and give it a new lease of life.
3. The system includes for repairing damaged or cracked areas, lightly sanding the existing surface to provide a bond and overlaying with **PUR Guard SF 400T** resin, mat coat and games lines to provide a brand new surface perhaps event with new colors, (two or three colors on the same floor, if required) and new game lines for your specified sports.
4. The whole procedure is a quick and economical way of resurfacing no removing existing floors not repairing the sub-base.
5. The high performance of the seamless surface of the **PUR Guard SF 250** system is non-porous, therefore hygienic and easy to clean. **PUR Guard SF 250** systems provide the optimum slide and slip resistance. Due to the high tensile strength and elasticity of the **PUR Guard SF 250** thickness layer and the excellent wear resistance of it's **PUR Guard SF 250** top layer, this tough and durable sports floor can also be used, without extra protection, for exhibitions, concerts, speech-days and all kinds of other non sports functions.
6. A brand new floor as good as new!

INSPECTION

- A. Inspect concrete slab of proper tolerance and dryness, reporting in writing any discrepancies to the general contractor.
- B. All work required to put the concrete slab in acceptable condition shall be the responsibility of the general contractor.
- C. The slab shall be broom cleaned by the general contractor.

INSTALLATION**Surfaces Preparation**

For thorough instructions regarding preparation of concrete substrates consult "Instruction for Concrete Surface Preparation".

Clean substrates of substances, including oil, grease and curing compounds, that might impair **Sport Floor** bond. Provide clean, dry and neutral substrate for application.

Concrete surfaces shall be Mechanically Short Blasting or by Grinding with Scarifying Diamond. Surfaces preparation result should achieve a CSP 3 or CSP 5 profile accordance to International Concrete Repair Institute Guideline No. 03732.

- A. Concrete shall be clean and free of sealers, dirt, oil, paint, and any material that, in the opinion of the flooring installer, will adversely affect the **LaMaCo** material bonding to the concrete or the overall installation (refer to 1.03 Working Conditions).
- B. Thoroughly mix two-component Primer Coat. **LaMaCo-PUR Sport Floor Primer** Two-component polyurethane primer, shall bond rubber base mat to concrete, asphalt, or wood. It shall be applied at a rate of approximately **[1.00mm thick require 2.15/kg/m2]**.
- C. Mix the two-component polyurethane adhesive and apply directly to the concrete sub floor at the specified rate with the specified notched trowel.

**PU Adhesive + EPDM/Rubber Granule
Base Mat System, Laying Thickness: from 4.00-9.00mm**

Please select the below EPDM or Rubber Granules Types

LaMaCo-PUR Sport Floor 7112 # EPDM Granules
LaMaCo-PUR Sport Floor 7112 # Rubber Granules
LaMaCo-PUR Sport Floor 7116 # EPDM Granules
LaMaCo-PUR Sport Floor 7116 # Rubber Granules

- D. Immediately unroll pre-relaxed mat into freshly applied adhesive.
- E. Roll base mat with heavy flat roller.
- F. Thoroughly mix two-component **LaMaCo-PUR Guard SF 400T**, two-component, Thixotropic Polyurethane compound applied at a rate of **[1.00mm thick require 1.60 kg/m2]**.
[2.00mm thick require 3.20 kg/m2].
a flat steel trowel. Allow each coat to cure before proceeding to the next application. After second coat has cured, inspect base mat for ridges and voids. Sand sown ridges, and fill voids as needed.
- G. Thoroughly mix two-component trowel coat, **LaMaCo-PUR Guard SF 250**, two or three-component, pigmented, Self-Leveling Flat Smooth Polyurethane compound applied monolithically over the base mat to a **[2mm thick require 3.20/kg/m2]**.

[3mm thick require 4.80/kg/m2].

Color to be manufacturers standard color. Apply mixed material using recommended notched trowel, or notched squeegee. Materials must be applied continuously to create a seamless surface. Allow topcoat to cure before proceeding to next step. Repair any imperfections in the finished surface. Clean floor with a vacuum, broom, or dry dust mop. Tack clean prior to proceeding.

Using the highest quality masking tape, tape the floor. Thoroughly mix the two-component game line paint, Game line paint shall be **LaMaCo-PUR Guard Line Paint**, two-component polyurethane, and paint between the tape. Remove all tape prior to the paint curing.

If wall base is specified, install vinyl base to walls by using the proper cement.

CLEAN UP

- A. Clean up all unused materials and debris and remove.

MAINTENANCE

- A. New floor initial maintenance.

IMPORTANT Allow new floor or newly recoated floor to cure at least 96 hours.

Sweep floor thoroughly. Do not use sweeping compounds.

Mix **LaMaCo System Sdn Bhd** approved cleaner with clean water to achieve desired water-to-cleaner ratio.

Using a new mop, damp mop the entire floor with cleaner/water mix.

Allow solution to dry on floor prior to use.

- B. Upon completion of floor installation, the owners, attendants or individuals in charge and responsible for the upkeep of the building are to see that all care maintenance are followed in accordance with **LaMaCo System Sdn Bhd** guidelines. Failure to follow care and maintenance guidelines may void warranty.



Flame Retardants



High Impact Resistance



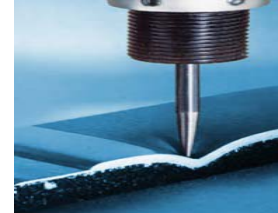
High Abrasion Resistance



Easy Cleaning



High UV Resistance



Excellent Protection

PUR Guard SF System Properties:

Athlete surface interaction (depending on Base of EPDM & Rubber Granules thickness):

PUR Guard SF 250, Typical Properties of the "Sports Floor Surface"

System Properties	Method/System	Test
Thickness	EN 1969	8 mm [6mm EPDM + 2mm PUR GUARD SF 250]
Resistance to Impact	EN 1517-1999	> 12 Nm
Resistance against static load	24 hours	25 kg/cm ²
Resistance to indentation	EN 1516	<0.37 mm
Resistance to a rolling load	EN 1569: 1999	> 1500 N
Resistance to Fire	Din 51960	not flammable-class 1
Resistance to Fire	BS 476 Part 7:1997	not flammable-class 3
Resistance to Fire	EN-ISO 11925:2002 & 9239-1:2002	C _{FL} – s1
Resistance to stubbed and burning cigarettes	EN 1399	Resistant no damage
Force Reduction	EN 14808 DIN 18032-2	21 %
Vertical Deformation	EN 14809 DIN 18032-2	0.4 mm
Water Permeability	EN 12616 in mm/h	48.48
Sliding Coefficient	DIN 18035-6/TRRL Dry	0.62
Sliding Coefficient	DIN 18035-6/TRRL Wet	0.57
Slip Resistance	EN 13036-4 Dry	101
Slip Resistance	EN 13036-4 Wet	81
Vertical Ball Behavior	EN 12235 DIN 18032-2	102 %
Compression Set	ASTM D-395-B	1.9 %
Compression Strength	N/S 1.1	>4 N/mm (> 4 MPa)
Spikes Resistance	EN 140810 DIN 18035-6	Class 1
Tensile Strength	EN ISO 527-1 DIN 54455	8 mm 0.5 N/mm (0.5 MPa)
Elongation at Break	EN ISO 527-1 DIN 54455	> 42 %
Resistance to Wear	EN ISO 5470-1 ASTM C-501	Taber H181 kg 1000 cycles 2.32 gram
Resistance to UV Light	EN 14836 (EN ISO 20105-A02)	Excellent, color change < 4
Environmental Compatability	DIN V 18035-6 table6 Lines 1-13	Passed

PUR Guard 400T, System Properties of the “Rough Finish Layer”

System Properties	Method/System	Test
Surface Hardness	DIN 53505, ASTM D-2240	Shore A=76
Tensile Strength	EN ISO 527-1, DIN 54455	12 N/mm ² (12MPa)
Elongation at break	EN ISO 527-1, DIN 54455	>220 %
Tear Resistance	DIN 53515	30 N/mm

PUR Guard SF 250, System Properties of the “Top Layer or Smooth Finish Layer”

System Properties	Method/System	Test
Surface Texture	N/F 12.1 –macro, micro, porosity	fine, polished, closed
Surface color		color chart
Resistance to Wear	EN-ISO 5470-1, ASTM C-501	Taber H181 kg 1000 cycles 3.6‰
Gloss	EN-ISO 2813	3-6‰
Friction	EN 13046-4	Dry 85 at 20°C
Friction	EN 14837 Leroux	Dry 0.7 at 20°C Wet 0.3 at 20°C
Sliding qualities	N/F 6.1	Dry 0.4 at 20°C Wet 0.2 at 20°C
Light	Color	8 (excellent)
Fastness	DIN 54004	8 (excellent)
Specular	light	0.1 – 0.3 (color dependant)
Reflectance	EN 13745	0.1 – 0.3 (color dependant)

PUR Guard is for Indoor or Outdoor or Multi Purpose Hall Sport Flooring System

This flooring thickness is total: 11-12mm thick

Primer: 0.8mm +

Cushion Base Mat: 9.00mm +

Elastic Floor: 2.00mm

Item	Products	Thick	Require kg/m2		Unit Price	Amount m2
1	300mm thick of Crusher Run					
2	75mm thick of Asphalt Wearing Course Premix					
3	A 10 # BRC Reinforced A Layer					
4	100mm thick Concrete Grade 25					
5	PUR Sport Floor Primer With Course Silica Sand	0.80mm	2.15	@		
6	PUR Sport Floor 7112 EPDM	9.00mm	11.25			
7	PUR Sport Floor 7112 Rubber	9.00mm	10.80			
8	PUR Sport Floor 7116 EPDM	9.00mm	11.25			
9	PUR Sport Floor 7116 Rubber	9.00mm	10.80	@		
10	PUR Guard 400T	2.00mm	3.20	@		
11	PUR Guard SF 250	2.00mm	3.20	@		
12	PUR Guard Line					
Average of Costing per meter sq:						



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