



SafetyPlay Pro® PU EPDM Multicolour System

SOFT FALL FLOORING PU SYSTEM SHEET

8 YEAR DURABILITY



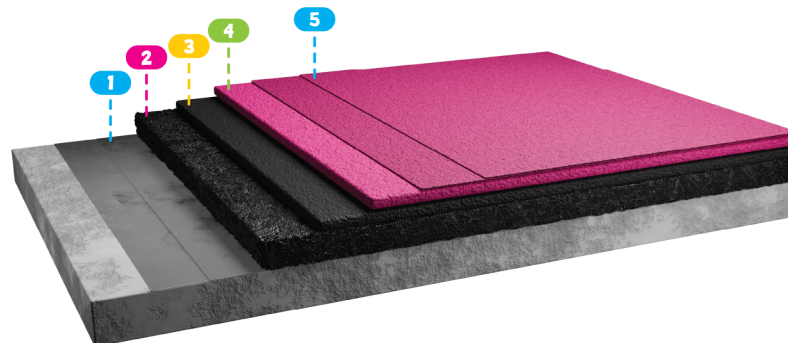
PL-SF-PU-01

SafetyPlay Pro® PU EPDM Multicolour

AN EPDM, ELASTIC,
IMPACT-ABSORBING, WET-POUR
RUBBER FLOORING SYSTEM.

An **EPDM** multi-layer system designed for **colourful, safe** playground flooring while delivering **good impact absorption & child safety**. It combines a **primer** for strong adhesion, a **SBR base** & **SBR Intermediate layer** for impact absorption & fall protection, a vibrant **EPDM wear layer** that enables playful **multicolour** designs & patterns with **good UV stability**. An optional/additional PU matt **Topcoat** can be added for **mechanical & abrasion resistance**.

Suitable on compacted gravel, cement or asphalt surfaces.



APPLICATION STEPS:

1 Primer Layer

Before priming the surface must be properly prepared. Always consult for a detailed specification.

SURFACE PREPARATION GUIDE:

- The areas to be coated should be dry, firm, solid and free from dust, oil, fats, and other contaminants.
- Oil can be removed using **Hydrosolve Degreaser**.
- Fungal growth or algae can be removed using **Fungicidal Wash**.
- Laitance and loose particles must be removed thoroughly (i.e., grinding/high pressure cleaning).
- Moisture content of concrete surfaces should not exceed 4%.
- Surfaces must be mechanically abraded and free of dust prior to application.

Apply 1K PU Primer

- Improves adhesion

Apply primer to properly prepared substrate using a brush, roller or airless sprayer.

The primer must be applied in 2 layers. Adhere to proper drying times between coats & before overcoating.

2 Base Layer

Mix **SafetyPlay Pro® SBR Rubber Mulch (32 mm) + SafetyPlay Pro® PU SF Binder 1K for SBR**

- Provides impact-absorption for Critical Fall Height

Mix products well & pour onto the properly dried **Primer Layer**.

Spread & level using a rake & straight edge, then smooth with a flat metal trowel or heat trowel/paver/roller. Compact the layer with a cylinder roller for a smooth, uniform finish.

3 Intermediate Layer

SafetyPlay Pro® SBR Rubber Granules (0.8 - 2.5 mm) + SafetyPlay Pro® PU SF Binder 1K for SBR

- Improves cushioning & firm joint support

Mix products well & pour onto the properly dried **Base Layer**.

Spread & level using a rake & straight edge, then smooth with a flat metal trowel or heat trowel/paver/roller. Compact the layer with a cylinder roller for a smooth, uniform finish.

4 Wear Layer

Mix **SafetyPlay Pro® EPDM E13 Rubber Granules (1.0 - 4.0 mm) + SafetyPlay Pro® PU SF Binder 2K for TPV/EPDM**

- Adds colour, durability & slip resistance

Mix products well and pour onto the properly cured **Intermediate Layer**.

Spread & level using a rake & straight edge, then smooth with a flat metal trowel or heat trowel/paver/roller. Compact the layer with a cylinder roller for a smooth, uniform finish.

5 Finish Layer - OPTIONAL

Apply **SafetyPlay Pro® PU SB Matt (GU 5-10) Topcoat**

- Adds Matt finish, mechanical & abrasion resistance

Apply the clear/coloured topcoat onto the properly cured **Wear Layer** using an airless sprayer or short haired mohair roller. The topcoat must be applied in 2 layers. Adhere to proper drying times between coats.

CERTIFIED

If installed to specified critical fall height thicknesses:

HIC under 1000 & peak impact forces under 200g

✓ SANS 51177:2010 ✓ HIC (Head Injury Criterion)

✓ EN 1177 ✓ EN 1176-1

Certificates available upon request

Layers	Products	Consumption
1: Primer	1K PU Primer A transparent blue, one component, solvent based, moisture curing polyurethane primer.	0.28 - 0.35 lt/m ² for 2 layers
2: Base	SafetyPlay Pro® SBR Rubber Mulch (32 mm) Black, styrene-butadiene recycled rubber mulch, providing the softest feel required underfoot.	18 kg/m ² for 30mm mixture
	SafetyPlay Pro® PU SF Binder 1K for SBR A one component, solvent free, polyurethane binder for SBR (15% by weight).	2.7 kg/m ² for 30mm mixture
3: Intermediate	SafetyPlay Pro® SBR Rubber Granules (0.8 - 2.5 mm) Black, styrene-butadiene recycled rubber granule for a soft, closed pore finishes.	6 kg/m ² for 10mm mixture
	SafetyPlay Pro® PU SF Binder 1K for SBR A one component, solvent free, polyurethane binder for SBR (25% by weight).	1.5 kg/m ² for 10mm mixture
4: Wear	SafetyPlay Pro® EPDM E13 Rubber Granules (1.0 - 4.0 mm) Colour, virgin synthetic EPDM rubber with 13% polymer content with moderate UV resistance.	6 kg/m ² for 10mm mixture
	SafetyPlay Pro® PU SF Binder 2K for TPV/EPDM A two component, solvent free, UV resistant polyurethane binder for TPV/EPDM (18% by weight).	1.08 kg/m ² for 10mm mixture
OPTIONAL 5: Finish	SafetyPlay Pro® PU SB Matt (GU 5-10) Topcoat Matt colour/clear, solvent based, highly flexible & UV resistant protective polyurethane topcoat	0.3 kg/m ² for 2 layers