



SafetyPlay Pro® PU SandShield System

SOFT FALL FLOORING PU SYSTEM SHEET

12 YEAR DURABILITY



PL-SF-PU-04

SafetyPlay Pro® PU SBR SandShield

A SBR, SAND & WATERPROOF,
ELASTIC, IMPACT-ABSORBING,
WET-POUR RUBBER FLOORING
SYSTEM.

An **SBR** advanced system designed for **durable, non-porous** playground flooring while delivering **excellent impact absorption & child safety** . It includes a **primer** for strong adhesion, two **SBR layers** for impact absorption & fall protection. A **pore filler layer** & **self-levelling cushion layer** create a **smooth, sealed surface** that **prevents water & sand penetration** . **Finished** with a PU gloss topcoat providing **UV protection & extending colour durability** under heavy outdoor use.

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

Mix 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 and pour onto the properly cured **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 Filler Layer

Apply SafetyPlay Pro® PU SF Porefiller

- Fills pores preventing sand & water penetration

Apply the pore filler onto the properly cured **Intermediate Layer** using a squeegee.

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

5 Cushion Layer

Apply SafetyPlay Pro® PU SF SL Cushion Base Layer

- Smooths & levels surfaces, adds extra cushion & durability

Apply the coat onto the properly cured **Filler Layer** using a V-notch trowel/rake followed by the use of a spiked roller.

6 Finish Layer

Apply SafetyPlay Pro® PU SF Gloss (GU >85) Topcoat

- Adds Gloss finish, mechanical & abrasion resistance

Apply the coloured topcoat onto the properly cured **Cushion 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.

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
	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
2 : Base	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
	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
3 : Intermediate	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 : Filler	SafetyPlay Pro® PU SF Porefiller A two component, solvent free rubberized PU pore filler, sealing open pores (RAL 7044).	2.17 kg/m ² for 2 layers
5 : Cushion	SafetyPlay Pro® PU SF SL Cushion Base Layer A two component, solvent free, elasticised self-levelling, protective cushion layer (RAL 1013).	2.6 kg/m ² for 1 layer
6 : Finish	SafetyPlay Pro® PU SF Gloss (GU >85) Topcoat Gloss colour/clear, solvent free, highly flexible & UV resistant protective polyurethane topcoat.	0.3 kg/m ² for 2 layers

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