



**PFS- Horse Stable System**

# **HORSE STABLE POLYURETHANE FLOORING**

**[www.zayaanco.com](http://www.zayaanco.com)**









## TECHNICAL DATA SHEET

### PFS-PU-ARP-01 - PU PRIMER

**Two Component, Solvent-free Polyurethane Based Primer.**

#### Specifications Details

Color	Brown- yellowish
Open Time	45- 60 minutes (variable depending on humidity and temperature)
Application Temp.	20 - 35°C
Curing Time	4- 5 hours
Mechanical Resistance	after 12 hours
Chemical Resistance	after 7 days
Density	1,05 ± 0,01 g / cm <sup>3</sup>
Consumption	200 g/m <sup>2</sup> (subject to substrate porosity)



#### Product Advantages

**One One Component, Polyurethane Based, Multi Purpose Flooring Primer.**

#### Specifications

- High performance of penetration and over coatability
- Tough & Durable
- Flexibility and Easy applicability to subfloors  
Special floor priming system for porous asphalt and concrete floors prior to application of flexible flooring systems
- Enhance excellent adhesion of polyurethane high solids products on porous substrates

#### Application Areas

PFS-PU-ARP-01, PU Primer is based on a specially selected polyurethane resin combined with organic solvents to produce a primer with optimum level of penetration, adhesion and overcoat ability.

Used for sealing the concrete surfaces by filling into the minute cracks and fissures, thereby blocks the pores, preventing air release so that the subsequent coating applied on the primed surface cures without any blow holes.

#### Application

All surfaces must be clean, dry and free from oil, grease. Before application, PU primer stirred well to get homogeneous mixture. The application time is 45-60 min. depending on temperature and humidity.

PFS-PU-ARP-01, PU Primer is simple and easy to apply by brush or roller. On very porous surfaces, a second coat of PFS-PU-ARP-01, Primer will be required. A second coat will also be needed when used as a dust proofing sealer. The surfaces must be protected from water 6-8 hours after application.

**Packing- 200Kg Drum**





## TECHNICAL DATA SHEET

### PFS-PU-ARB-02 - PU BINDER

#### One Component, Solvent Free, Polyurethane Based Adhesive Binder. Specifications

Colours	Transparent, Yellow-brown
Storage Stability	+10 °C - +35 °C
Open Time at SBR systems	2 – 3 hours
Open Time at EPDM systems	4 - 5 hours
Drying Time	24 hours
Final Strength	7 weeks
Water Resistance	High
Consumption at SBR systems	BINDER 30% of SBR Systems
Packing	200 kg Drum

#### Product Advantages

- ☼ Water resistant,
- ☼ Moisture-curing,
- ☼ Flexible,
- ☼ Excellent strength at outdoor applications.

#### Application Areas

PFS-PU-ARB-02 is designed for binding rubber granules in the production of synthetic and flexible sports surfacing applied by wet-pouring systems (running tracks, jogging track, multi-use games areas & safety playground flooring etc.)

PFS-PU-ARB-02 is also suitable for adhering rubber, metal, pvc, wood, cement and carpet.



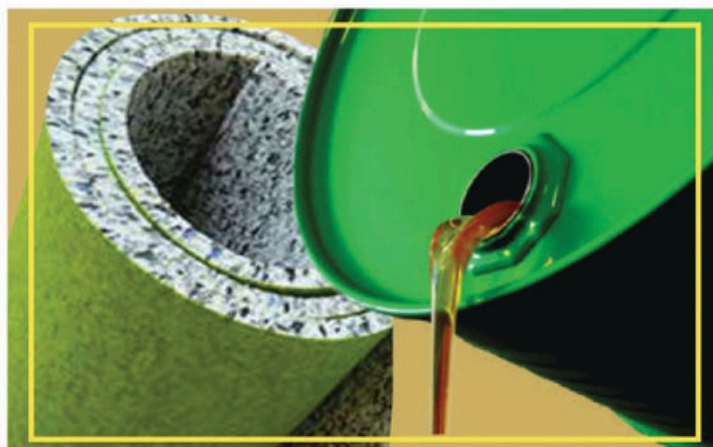
#### Application

The surface to be coated must be clean, dry, free of oil, grease, dirt and any other contaminants that would impair adhesion.

PFS-PU-ARB-02 is ready for use as supplied and should be mixed with dry rubber granules.

This mixture can be applied with specially designed pavers in order to obtain a uniform, level surface.

The cure time varies with temperature and humidity. High temperature and high humidity will decrease cure time while low temperature and low humidity will increase cure time







## TECHNICAL DATA SHEET

### PFS-SBR-083 - SBR GRANULES

#### WET POUR RUBBER GRANNLE

PFS - SBR-083 Black Rubber Granules are granulated from tyre tread stocks which are generally a blend of SBR/NR/BR compositions and sieved through standard sieve with size distribution illustrated below :

**Bulk Density:**  
( $\pm 7\%$ ) 580/litre.

#### Physical Properties:

As the granules are from a blend of different Tyre Companies' compounds it is impossible to quote exact physical properties but over 90% of all granules will fall within the following parameters:

#### The Process:

PFS SBR granules are made from Recycled tyre, rubber, specialist pigment and UV stabilisers. Blocks of the rubber compound are produced under carefully controlled factory conditions which are then granualted at high speed. Dust is removed at every stage to ensure the finished granules are as clean as possible. Throughout the process, thorough testing ensure that the chemical and physical properties are of consistantly high quality.

#### Particle Appearence:

Clean,sharp angles, black granules. General Appearence:

Dust, Fibre and metal free

#### Physical Properties:

Tensile Strength	: 20 – 25
Elongation @ break %	: 300 – 450
300% modules MPA	: 12 – 18
Hardness IRHD	: 60 – 70
Rebound resilience at 50°C(%)	: 60 - 70
Consumption	0.7 kg/m <sup>2</sup>

#### Key Benefits:

Through SBR granules maintain surface cushioned during base layer.

Angular granules provide excellent drainage (SBR Graded to 0.8-2.0mm)

High elasticity and wear resistance (Elongation at Break  $\geq 650\%$ , Tensile Strength  $> 6.0$  Mpa)

UV resistant properties (Grey Scale 3-5 dependent on colour)

Low density for excellent coverage ( $1.60 \pm 0.05$  g/cm<sup>3</sup>)

Non toxic

#### Packing:

Shrink- wrapped pallets holding 40 x 25 kg polythene bags or 1 - 1.5tone of jumbo bag.

#### Main Applications include:

- Base layer for childrens playgrounds, onto an engineered to Floor Base.
- Base layer for athletics tracks, jogging track and multi-use games areas.
- Swimming pool surrounds
- Walkways and landscape areas.
- Driveways
- Raw material for moulded products.
- Garden decoration / Weed control, loose filled.







## TECHNICAL DATA SHEET

### PFS-PU-PF-03

#### Two component, pigmented, polyurethane based pore sealer

##### Product Description

PFS-PU-PF-03 is a solvent free, thixotropic, two component PUR pore sealer.

##### Fields of Application

PFS-PU-PF-03 is used as a pore sealer for rubber granule mats for impermeable sports surfaces such as athletic tracks, jogging track and multipurpose fields.

##### Properties

PFS-PU-PF-03 a component is thixotropic, has a long pot life, is easy to apply and exhibits excellent resistance to moisture during the curing process and good curing behavior even at low temperatures.

##### Application Method

PFS-PU-PF-03 is supplied in the correct proportions of component A (resin) and component B (hardener). Pour component B into component A and ensure that pail containing component B is emptied completely.

To achieve a homogenous mix, thoroughly mix with a slow rotating mixing device at about 300 rev/min. Ensure that the mixing device reaches the side and bottom areas of mixing vessel.

The mixing process takes at least 2 minutes and should be performed until the blend is homogenous and streak free.

Pour the mix into another clean pail and mix it again for 1 additional minute.

When thoroughly mixed, the material is applied to the rubber granule mat with a flat rubber or metal squeegee. In order to achieve the coverage rate indicated, pressure must be applied to the squeegee to tightly scrape off the material.

The material consumption depends on the surface structure of the rubber granule mats (grain size, compaction, evenness of the surface) as well as substrate, material and ambient temperature.

The substrate temperature must not exceed 50 °C as this would liquefy the material and increase the coverage.

At higher temperatures PFS-PU-PF-03 can be filled with up to 10 % EPDM powder to lower the consumption

The pot life and curing time of PFS-PU-PF-03

are influenced by the ambient material and substrate temperature. At low temperatures, chemical reactions are generally slowed down; this lengthens the pot life, recoating interval and open time. At the same time, the viscosity increases which leads to a higher consumption. High temperature and humidity accelerate chemical reactions so the contrary is true. Direct sunlight shortens the time frames considerably.

**PFS-PU-PF-03** exhibits an excellent water resistance during curing time; nevertheless, as with all systems based on isocyanate, water may cause foaming on the surface of the coating.

Hence in order to prevent foaming after application, the material should be protected from contact with water for a few hours.

In case of (expected) rain, PFS-PU-PS-03 may not be applied.

The surface of the PFS-PU-PF-03 must be clean and dry before application of further wear coats.

##### Important Notice:

Fresh pore-sealed surfaces with PFS-PU-PF-03 can be recoated without the use of a primer if the substrate is dry and clean.

Apply only as much PFS-PU-PF-03 as can be re-coated during the maximum re-coating time.

After rainfall, priming is always necessary.

##### Substrate Condition

PFS-PU-PF-03 is applied directly on cured and dry rubber granule mats free of loose and brittle particles as well as substances which impair adhesion such as oil, fat, rubber skid marks, dust or other contaminants.

##### Pack Size

PFS-PU-PF-03 is supplied in 24 working packs. Components A and B are supplied in the correct proportion and delivered separately



## TECHNICAL DATA SHEET

**PFS-PU-PF-03**

### Colour

Oxide-Red

### Storage

- ☼ Store in original closed packing, under dry conditions.
- ☼ Do not expose the drums to direct sunlight.
- ☼ Before use, please see "best before" date on the pail / drum.

### Technical Data

Finish:	Mat
Color:	Oxide Red
Density :	1,46 ± 0,05 kg/l (A+B)
Mix Ratio :	7:1 (A:B – by weight)
Solids by volume:	%100 (A+B)
Pot Life (+10°C) :	60 minutes
(+30°C) :	30 minutes
Wait Time Between Coats:	24 hours
Ready for Light Traffic :	2 days
Full Cure:	7 days
Consumption	2 kg /m <sup>2</sup>
Packing	23.5 kg
Component A	21 kg
Component B	2.5 kg





## TECHNICAL DATA SHEET

### PFS-PU-TCM-05

## Two component, polyurethane based, sport top coat matt for sport flooring systems

### PRODUCT DESCRIPTION:

It is a polyester polyurethane resin-based, two-component, resilient and color flooring with low viscosity which is used as topcoat having a plain and matt appearance for sport floor paint systems designed as multilayer or thin flooring.

### RECOMMENDED USE:

- ✓ It is used as topcoat paint on the sport floors indoors/outdoors.
- ✓ Sport surfaces such as jogging track & Running track

### ADVANTAGES:

- ✓ Applicable by airless spray paint application equipment,
- ✓ Resistant to diesel, petrol and many chemicals,
- ✓ High wear resistance,
- ✓ Resilient and rigid structure.

### APPLICATION PROCEDURES:

**Surface Preparation:** Surface should be clean and free of any defect. Care should be given to the application time of the previous primer or base coat.

**Strength:** Mechanically, it resists against mechanical effect of medium to high load. And thermally, it resists up to +80°C at humid temperature (also without any chemical and mechanical effect) and up to +120°C at dry temperature.

- ✓ Maximum ambient humidity should be 80%.
- ✓ Ambient temperature should be between 10 and 30 °C.

### Application Conditions:

- ✓ Relative humidity of the air should be maximum 75% and the application (ambient and surface) temperature should be between +5-35 °C.
- ✓ In case it is applied outdoors, it should not be rainy 48 hours before and after and during the application.

**Mixing Procedure:** It is a two-component product and it should, therefore, be prepared at the mix ratio specified for the quantity to be used, taking into consideration the pot life. For a homogenous mixture, make sure that the product temperature should not be less than 15°C. Component A should be stirred by itself by use of a mechanical mixer quickly and then the hardener (Component B) should be added, taking care of the mix ratio. Components A and B should be stirred by using a mechanical mixer for minimum 3 minutes until you have a homogenous mixture. Make sure the prepared mixture is consumed during the pot life of the mixture.

**Surface Application:** After made ready to apply, the mixture is preferably applied by airless spray or roller in amount specified in the paint system or in such amount to obtain the desired dry film thickness as controlled by wet film comb.

Wait time between the coats is minimum 24 hours (20°C) and maximum 5 days. It is very important that the second coat should be applied within the time for over coating specified above. It reaches to a full mechanical and chemical strength in about 7 days.

**Clean Up:** Cellulosic or Polyurethane thinner.

### PACKING:

A 15.5-kg set of PFS\_PU-TCM-05 consist of Component A in one pail of net 12 Kg and Component B in one gallon of net 3.5 kg

### STORAGE:

Store the product in a cool and dry place. Must be stored properly in the original container unopened.





## TECHNICAL DATA SHEET

### HEALTH/SAFETY PRECAUTIONS

Refer to Material Safety Data Sheet (MSDS) prepared as per the related EU directives before use.

#### PRODUCT CHARACTERISTICS:

Finish :	Matt
Color:	Red
Density:	1,20 ± 0,05 kg/l (A+B)
Mix Ratio :	4:1 (A:B – by weight)
Solids by Volume:	60% (A+B)
Pot L	120 minutes
(+30°C) :	50 minutes
Wait Time Between Coats:	24 hours
Ready for Light Traffic :	2 days
Full Cure :	7 days
Cosumption	0.35 kg/m <sup>2</sup>

Taber Abrasion Resistance : 30 mg (in full cure)

