



For every sport... the right surface.



Nahar Amrit Shakti, Chandivali



Mahavir Heritage, Kharghar



Arun Aashray Trust, Pune



Manjeera Diamond, Hyderabad



Kalpataru Aura, Ghatkopar

### Soft landings for tender feet

The growing years are an exciting time, full of activity. Children are the ones who are most susceptible to accidents. Thankfully, Playsafe offers excellent impact absorption properties, which cushion the probability of unpleasant injuries. This makes it an excellent surface for flooring in parks, schools and children's play areas.

Playsafe is a specially formulated Ecoflex surface that is ideally suited to Children's play areas. Its biggest advantage lies in its impact absorption property that cushions falls and minimizes unwanted injuries to children. What's more, the fact that it also eliminates unhygienic contact with irritants like mud, sand and dust should come as a breath of fresh air to asthma or allergy sufferers. And finally, anti water absorption properties ensure there is no mess or sogginess during the monsoons, making Playsafe the final word in child safety flooring for all seasons.

All Ecoflex floors are easy to maintain and can be resurfaced when required.

TESTED BY



INDIAN RUBBER MANUFACTURERS





Type of surface

Suited to Children's play areas

Aim

Its biggest advantage lies in its impact absorption property that cushions falls and minimizes unwanted injuries to children. Lack of contact with dust, sand and mud eliminates incidence of allergies.

Description	 EPDM granule top layer Commercial / Premium	 SBR granule with coloured binder
<b>Top surface</b>	6 mm thick EPDM granule top layer, delivering a combination of high mechanical and weathering stability. Available in a full range of colours.	6 mm Black SBR granule coated with thin layer of colour. Available in Green, Black and Terracotta only.
<b>Base layer</b>	30 mm thick SBR Shreds provide cushioning for protection against injuries.	30 mm thick SBR Shreds provide cushioning for protection against injuries.
<b>Colour fastness</b>	With an additional layer of 6 mm of pigmented granules, the surface does not lose its look until this layer wears off, thus giving it a longer life.	As the top layer is coated only externally, the colour of the product may wear off in time, depending on the amount of traffic.
<b>Recommended usage</b>	Premium product. Good for heavy traffic areas.	Economical alternative. Good for limited access areas.

### System properties:

Test / Parameters	Unit	Description
Appearance		It have aesthetic look of different colorful granules of Rubber crumps. It shall have one or two layers having different thickness as per the customer requirements.
Thickness	mm	Shall be agreed mutually
Density	(g/cm <sup>3</sup> )	0.60 ± 0.05
Grammage	(kg/m <sup>2</sup> )	20 ± 2 (For 39 mm thick sheet)
Deformation Test (Compressive stress at 25% deflection)	Kg/cm <sup>2</sup>	1.5 ± 0.3
Force Reduction (Relaxation after 30 minutes)	%	38 ± 3
Fire Resistance Test		It will not catch fire and no smoky atmosphere shall be observed till the cigarette burns completely
Clegg Impact Test (CIT)		
For top side	CIT value	5 ± 2
For bottom side (Black colored)		6 ± 2

#### Installation:

EcoFlex surfaces are extremely easy to install. One only need to take a few simple things into consideration like- An EcoFlex safety flooring is laid out on any smooth, pre-prepared IPS surface, all protuberances and bulges on the sub-floor need to be levelled by sanding, etc.

#### Maintenance:

Maintaining an EcoFlex surface is both, simple and cost-effective. The surface should be cleaned with soap or a mild detergent, using a damp cloth or a mop.

#### Note:

Warranty of 1 year covering any physical deformity available on both variants. though a slight change in colour due to uneven exposure to sunlight and rain can be expected. Surface wear could occur due to excessive use in certain areas. Colours shown

## F R E Q U E N T L Y   A S K E D   Q U E S T I O N S

### Q) What is Playsafe?

- A) The growing years are an exciting time, full of activity. Children are the ones who are most susceptible to accidents. **Playsafe** offers excellent impact absorption properties, which cushion the probability of unpleasant injuries. This makes it an excellent surface for flooring in parks, schools and children's play areas.

### Q) What is Runathon?

- A) Jogging is an activity that is as demanding as it is beneficial. It generates a lot of strain on the calves and the knees. **Runathon** for Jogging tracks that have been laid out using EcoFlex Safety Surfaces help minimize stress levels, owing to the excellent shock absorption properties so that nothing else comes between you and your track.

### Q) What are the advantages of Playsafe?

- A) Playsafe is a specially formulated EcoFlex surface that is ideally suited to Children's Play Areas. Its biggest advantage lies in its impact absorption property that cushions falls and minimizes unwanted injuries to children. What's more, the fact that it also eliminates unhygienic contact with irritants like mud, sand and dust should come as a breath of fresh air to asthma or allergy sufferers. And finally, anti water absorption properties ensure there is no mess or sogginess during the monsoons, making Playsafe the final word in child safety flooring for all seasons.

### Q) What are the advantages of Runathon?

- A) Runathon is a specially formulated EcoFlex surface that is ideally suited to Jogging Tracks. The biggest advantage lies in its shock absorption property that reduces fatigue and helps prevent unwanted injuries, making Runathon the final word in jogging track surfaces.

### Q) What is the EPDM and SBR, and what is the difference between the two?

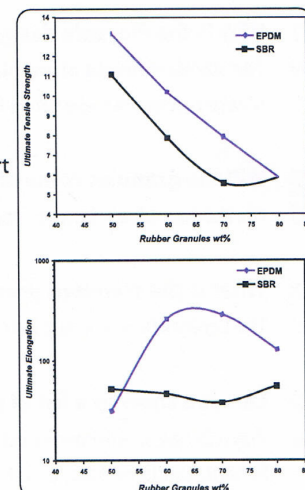
- A) • **EPDM (Ethylene Propylene Diene Monomer)** is an organic synthetic elastomer which, when cured, has many properties equivalent to or better than those of natural virgin rubber. During the production of the EPDM polymer, there are several additives which are used to enhance color stability, wear characteristics, durability and flexibility. The original state of this EPDM is actually scrap derived from the manufacturing of virgin EPDM. This scrap material is contaminated with water, metal and other by-products suitable only for landfill disposal. In order to take advantage of this available scrap, the EPDM is thoroughly cleaned and re-processed in order to remove all contaminants and meet the strictest of quality assurance standards.

The color for EcoFlex's EPDM originates primarily from carefully selected organic dyes and, for a few special colors, inorganic pigments.

- **SBR (Styrene-Butadiene Rubber)** is the most widely used type of synthetic rubber. Its manufacturing involves co-polymerization of three parts butadiene with one part styrene. Perhaps, the most widely used application is tyres. The SBR used in the production of EcoFlex rubber flooring is recycled black scrap tyre. The scrap is cleaned to remove fiber, metal and other impurities.

#### • Difference between EPDM & SBR:

- 1) There is no change in the ultimate strength & Longevity.
- 2) Test shows that the elongation of the SBR varies slightly around 40%-45%, while that of the EPDM shows maximum elongation of 250%-300%.





## F R E Q U E N T L Y A S K E D Q U E S T I O N S

— 2 —

**Q) Why is EPDM more expensive than SBR?**

A) The SBR used in the production of EcoFlex flooring is recycled black scrap tyre. The scrap is cleaned to remove fiber, metal and other impurities. The EPDM is actually scrap derived from the manufacturing of natural virgin rubber. This scrap material is contaminated with water, metal and other by-products suitable only for landfill disposal. In order to take advantage of this available scrap, the EPDM is thoroughly cleaned and re-processed in order to remove all contaminants and meet the strictest of quality assurance standards. Thus, the EPDM is more expensive than SBR.

**Q) In what way is it beneficial to children?**

A) The biggest advantage lies in its impact absorption property that cushions falls and minimizes unwanted injuries to children. The fact is that it also eliminates unhygienic contact with irritants like mud, sand and dust should come as a breath of fresh air to asthma or allergy sufferers.

**Q) How many colours are available?**

A) The Colours available : • **EPDM Colour Top**



Red



Yellow



Orange



Blue



Light Green



Dark Green

• **SBR Colour Top**



Green



Black



Terracotta

**Q) Why is SBR available only in 3 colours and that too, relatively dull ones? Since EPDM is more expensive, isn't it better to give a larger colour range in SBR itself?**

A) The SBR used in the production of EcoFlex flooring is recycled black scrap tyre. The scrap is cleaned to remove fiber, metal and other impurities. SBR rubber granules are bounded together with a polyurethane based binder, this polyurethane binder comes only in clear/black, Green and Red i.e. Terracotta colour.

**Q) What are the technical specifications and system properties of the product?**

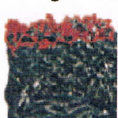
A) **EPDM granule top layer (Commercial / Premium)**



← 6 mm thick EPDM granule top layer, delivering a combination of high mechanical & weathering stability.

← 30 mm thick SBR Shreds provide cushioning for protection against injuries.

**SBR granule with coloured binder**



← 6 mm Black SBR granule coated with thin layer of colour. Available in Green, Black and Terracotta only.

← 30 mm thick SBR Shreds provide cushioning for protection against injuries.

**Q) Why is the Playsafe designed with only 36 mm thickness? Why can't we get it in other thicknesses?**

A) The standard height of any play equipment is maximum of 2 mt. for which 36 mm thickness is enough, If you require more, please contact our executive for quote.

**Q) Will the granules come off from the surface once laid?**

A) No, the granules will never come off from the surface once laid.

**Q) What is the standard product life?**

A) The EcoFlex floor will last 8-10 years. After this period, it can be resurfaced at the fraction of the cost to give you a new floor.

**Q) Can you show us a list of prominent customers?**

A) Playsafe has an impressive list of clients, including the Hiranandani Group, K. Raheja Universal, K. Raheja Corp., West Wind School, Kangaroo Kids, Euro Kids, Sunderbai Thackersay Play Group and many more.