



**SURFACE
FLOORING
(PLAY SAFE)**



NAGPAL

ENGG. & SPORTS

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<http://www.nesplaygroundequipment.com>

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A vibrant outdoor playground set is shown, featuring a variety of colorful slides, swings, and climbing structures. The equipment is mounted on a dark metal frame and is situated on a bright red EPDM rubber safety mat. A large white box with the text "EPDM" is overlaid on the center of the image. The background includes a modern apartment building and some greenery.

EPDM



Durability



Easy Clean

Colour



Quality



Outdoor



Safety

Eco-Friendly



Design





EPDM Rubber Flooring Application



Play Equipment Flooring



Athletic Track



Jogging Track

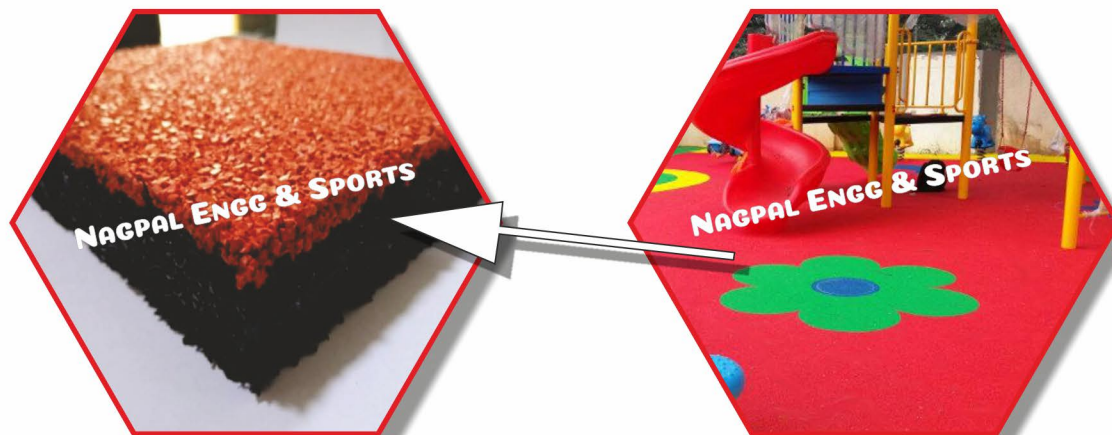


Water Pool Deck



EPDM Rubber Flooring (Safe Play)

- * **A Premium flooring for kidsplay area and jogging track.**
- * **Absolutely Safe Surfaces technology which is based on wet-pour rubber process.**
- * **Base Layer-made of Rubber buffing granules and Top layer-made of EPDM rubber granules with the mixing ratio of PU Binder, that give most important cushion and for playground.**



EEPDM or Ethylene Propylene Diene Monomer is a type of synthetic elastomer Processed in INDIA\ ORIGIN OF MATERIAL EUROPEAN Mix with MDI single component of Diphenylmethane diisocyanate and Para ffinic Oil adhesive.

Black Rubber Muluh\SBR (Styrene Butadiene Rubber) Styrene butadiene rubber is a type of synthetic rubber made from recycled rubber products & it is extensive used in playgrounds & jogging \ athletic tracks for excellent cushion, soil moisture, elasticity & safety.

The product offers a choice for client to mix and match the colour of the playground with the main theme desired designs. Based on EPDM technology, this flooring comes with fresh and permanent colours that do not fade away with either time of use.



EPDM Rubber Granule Technical Details

Full EPDM (Ethylene Propylene Diene Monomer Coloured Granules)

Technical Data Sheet

Test Parameters	Specification
Granule Size	1.0-3.5 mm
Base Polymer	Synthetic Polymer EPDM (No blend)
Polymer Content	>22% or = 22%
Grey Scale Rating	3-4
Density	1.60±0.05
Hardness (Shore A)	60±5
Elongation at break (%)	>500%
Tensile strength (Mpa)	>5 Mpa
Bulk Density (g\dm3)	600-700





Sub-Base Surface for EPDM Rubber Flooring

Recommended Point :

Recommended Only on concrete, asphalt or stone floor with plain surface.

Proper drain slope surface to drain out rain water from surface on either side.

Edge wall skirting is must on around the EPDM rubber flooring area specified height EPDM rubber floor thickness.

Drain outlet point on slope line of surface along skirting area must.

Proper inspection of surface should be made for any type cracks, dirt, dust, oil or grease, moisture on surface. Application should be avoided in high temperature, arising humidity and monsoon period, especially in areas where the sea level and rainfall high in region.

Make sure EPDM rubber flooring work to done only after play equipments are installed on site.



Sub-Base : Actual Site before and after installation of EPDM rubber Flooring



EPDM Rubber Flooring Installation

Material Components :



**Rubber Buffing (SBR)
(9-30 mm)**



**EPDM Rubber Granule
(6 mm)**



**Polyurethane (PU)
Binder**

Installation Steps :



Step 1 : Rubber Buffing (SBR) layer 9 mm-30 mm thickness. With mixture of buffing and PU binder. After Curing followed by chalk marking as per design.



Step 2 : EPDM granule layer of 6 mm thickness. With mixture of EPDM rubber granule and PU binder. Fill in the mixture as per the larger colour area.



Step 3 : Cutting EPDM layer for the finish lining design using cutter. Specifically for the small coloured pattern areas.



Step 4 : After complete installation EPDM rubber floor should be left with the curing time of 3-4 days before used. With strictly board sign near play area followed by Do's and Don't.



EPDM Flooring : Do's and Don't

✓ Do's



Do cleaning of flooring with dry and soft broom daily or wet cloth wipe



Do cover the surface always with plastic or tarpaulin sheets for any civil work going around the flooring premise to avoid any cement or building material damage to surface



Do deep cleaning of flooring use water spray for dust removal within 7-10 days of time as per need.



Do trimming of hanging tree branches periodically to avoid fall of dried wood, leaves and birds droppings which cause stain and smell on surface.



Do take care of flooring while kids play equipments work carried out where oiling – greasing or painting or any type of maintenance going on which can leave back stain on surface but can be using cleaned wet cloth wipe.

✗ Don't



Don't allow to walk, run or play wearing hard sole footwears e.g: Spikes, Heels, etc. which can damage surface with period of time.



Don't allow the garden mud to spill on the flooring area which can damage the colour shades of surface.



Don't allow the water collected in forming bird baths which can collect dust leaving dirt and decolourisation of surface behind.



Don't allow any eatables or beverage items in flooring area, if dropped or spilled can leave dirt and smell from surface.



Don't allow kids to play sports such as cricket, football, hockey etc. can cause rough mark and material damage with sports equipments.



Don't use any type of chemical solvent, acids, bleaching agents etc. for cleaning purpose which can react with flooring material.



Don't allow pet animals like dogs, cats or stray dogs to wander activities like nail scratching or litter can damage the surface.



Don't allow the use of hard metal brush, to remove any type of dirt or dust which can remove the fine granule readily.



Don't allow any fabrication or carpentry work to be carried on flooring area, as metal tools or implements can cause severe damage and along with unrepairable spots.



Don't allow the use of any heavy metal push-pull activity of flooring even metal wheel base trolley should not be used.



Don't allow the movement of metal legs chair which can damage the flooring leaving scratch or imprint marks.





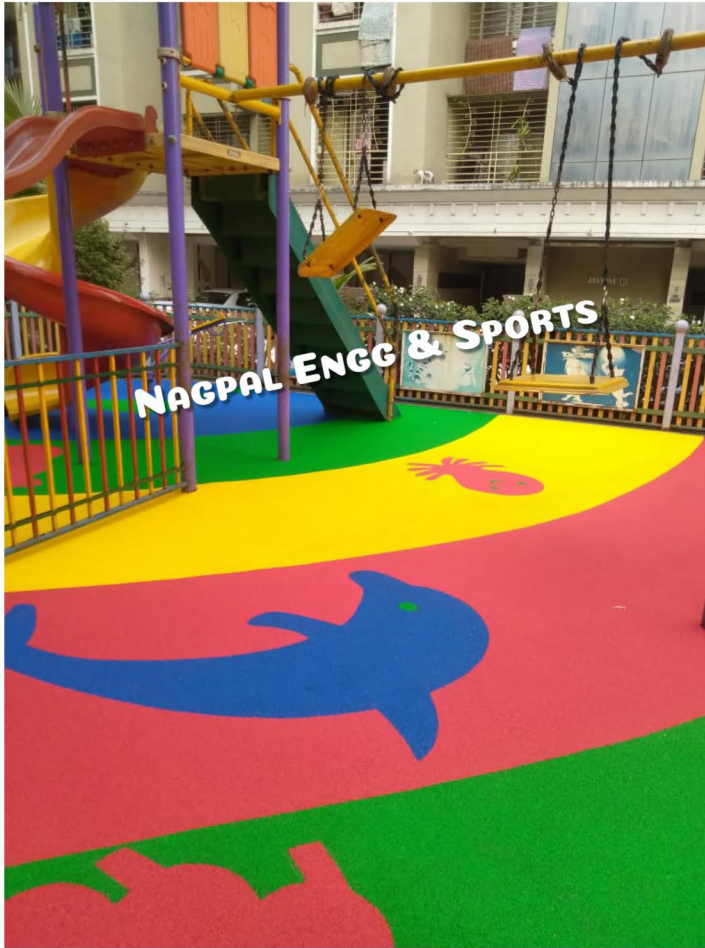
EPDM Flooring : Sites





EPDM

EPDM Flooring : Sites



A photograph of an outdoor playground area. The ground is covered with interlocking rubber tiles in a red and black checkerboard pattern. In the foreground, there is a yellow slide on the left and a blue staircase with yellow railings in the center. To the right, another yellow slide is visible. In the background, there is a red brick wall, lush green trees, and a building with a yellow and white facade. A few people and a motorcycle are visible near the building. A white text box with red text is overlaid on the image.

**RUBBER
TILES**



Rubber Tiles

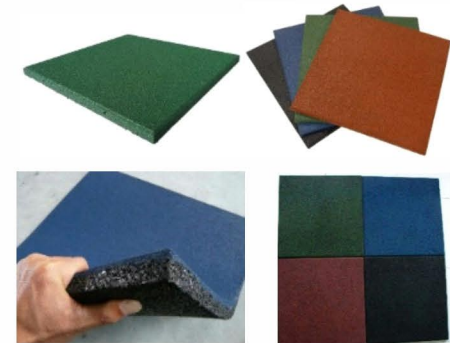
We offer Best Quality Rubberized Flooring that allow children to play without the high risk of permanent injury. These thick safety tiles are made of commercial grade, shock absorbing, resilient, rubber mats that provide long-term answers to safety. These tiles are made available in variety of sizes and designs in order to meet the varied necessities of our honorable clients.

Available in Different Thickness From 10mm To 45mm Available in Tiles Sizes 508MM x 508MM 1 Tiles = 2.77 Sq.ft

Available Color : Blue, Green, Black, Terracota Red , Gray

Quick Details :

- Type** : Rubber Flooring, rubber tile
- Material** : 100% Recycled Rubber Granules
- Application** : Playgrounds, Gym, Park, Residential, Multisports etc.
- Features** : Environmentally Friendly, Non toxic, Anti-slip, fadeless, Elegant look





RUBBER TILES : SITE



**SYNTHETIC
SURFACING**

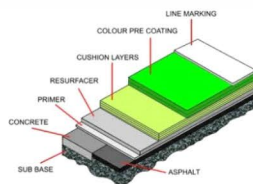


Vivo V15
AI Triple Camera



Synthetic Surfacing Systems

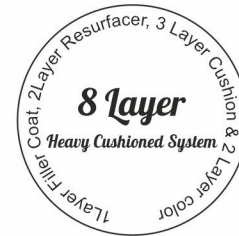
Synthetic is used for the court for it stays unchanged in the long run. We will provide you synthetic that give a proper elasticity and cushion to the floor. The floor is UU resistant and won't be affected by fungus, bacteria or any kind of insects. The synthetic surface of court ensures that the players get a safe ground while practicing. The floor will decrease the chances of the bruises on different parts of the body during the hard-core practice sessions. Chances of serious accidents are minimized.



- 1. Filler Coat One Layer**
- 2. Resurfacer One Layer**
- 3. Cushion Two Layer \ Four Layer**
- 4. Colors Coat Two Layer**
- 5. Line Marking as per ITF standard**

- Advantage :**
- 1. Seamless Finish**
 - 2. Excellent Grip \ Slip resistant**
 - 3. Smooth surface safe to use**
 - 4. Lasting Quality & Low maintenance**
 - 5. Economic Alternatives**
 - 6. No wear patches in heavy play areas**
 - 7. True bounce & Accurate deviation of ball.**

Application : Basketball Court, Badminton Court, Tennis Court, Volleyball Court





Synthetic Court Area



Basket Ball Synthetic Court

Required Area : 32Mtr x 19Mtr = 6542 Sq Ft.
Playing Area : 28Mtr x 15Mtr = 4520 Sq Ft.



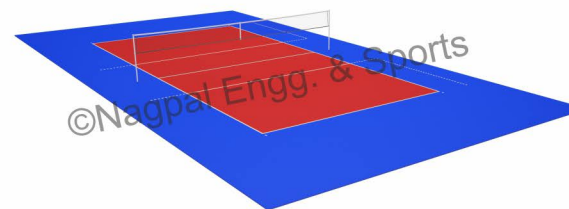
Badminton Synthetic Court

Required Area : 48 ft x 24 ft = 1152 SqFt.
Playing Area : 44 ft x 20 ft = 880 SqFt.



Tennis Synthetic Court

Required Area : 120 ft x 60 ft = 7200 SqFt.
Playing Area : 78 ft x 36 ft = 2808 SqFt.

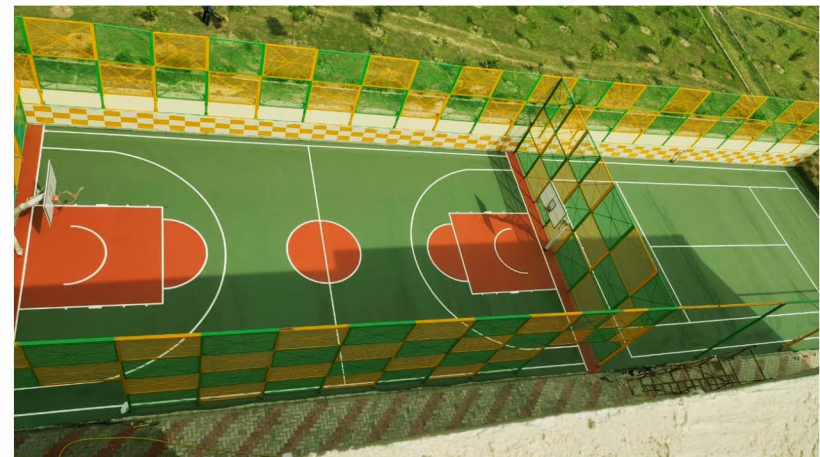


Volleyball Synthetic Court

Required Area : 34Mtr x 19Mtr = 6953 Sq Ft.
Playing Area : 18Mtr x 9Mtr = 1744 Sq Ft.



Synthetic Surfacing : Site





NAGPAL ENGG. & SPORTS

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