

FlexiTop

Composition

FlexiTop is a flexible two-course system which can be installed to varying depths. The non-slip top layer, known as the wearing course, consists of tough and durable EPDM rubber granules mixed with a polyurethane binder. These clean cut and clean faced granules provide a well bonded surface with a high tensile strength that will prove to be extremely durable.

Black surfaces use a recycled EPDM rubber derived from the waste produced in the manufacture of industrial rubber mouldings and also from rubber seals derived from the automotive trade. Coloured surfaces are formed from virgin EPDM rubber and are coloured throughout.

The base course comprises granulated recycled rubber to varying depths dependent on the play equipment above. The spongy base layer cushions the fall, progressively deforming and lengthening the impact over time and distance.

FlexiTop can be used to overlay an existing wet pour surface in most circumstances. In these situations it is imperative that the substrate is completely dry before being overlaid. The substrate must be fully primed prior to the installation of the overlay surface.

Base Construction

A sound, well prepared base is essential for a long lasting surface. When the depth of FlexiTop is 40mm and above it can be laid directly onto an accurately laid free draining aggregate sub-base. For depths below 40mm the base will need to be tarmac or concrete.

FlexiTop can also be laid onto existing tarmac or concrete providing that they are in sound condition. Use a primer to provide adhesion between the substrate and the rubber and a chase cut at the perimeter to anchor the surface into place. Alternatively, a black EPDM rubber profile, Star Kerb, can be used to provide an edge detail.

Sub base specification when laid directly onto existing concrete/tarmac

See drawings - cross section 20mm Star Kerb and cross section 20mm chase

- FlexiTop can be laid on top of existing concrete/tarmac in satisfactory condition by creating ramped perimeter edges.
- Cut a chase 25x25mm into concrete/tarmac at perimeter of area, or install Star Kerb.
- Ensure that the minimum required surface area for any play equipment is at the full depth (i.e. not ramped).
- Where the surface depth is 50mm or less, the length of the ramp is to be twice the depth of surface.
- Where the surface depth is above 50mm, the length of the ramp is to be 2.5 times the depth of surface.

Sub base specification when depth is 40mm or greater

See drawing - cross section 40mm into grass

- Excavate surface to required depth (ie, depth of stone sub base and depth of FlexiTop).
- Install 150x150mm pre-cast concrete edgings at perimeter of area, bedded on and backed with concrete. These may be substituted with brick paviours, treated timber, or other forms of edging.
- Lay a compacted MOT type 1 aggregate sub base to a minimum 100mm depth. A greater depth may be required in softer ground conditions.
- The area outside the perimeter edging should be reinstated (eg, with topsoil/turf) to ensure that no trip hazard is created.

Sub base specification when depth is less than 40mm

See drawing - cross section 20mm into grass

FlexiTop cannot be installed directly onto an aggregate sub-base when the required depth is less than 40mm and will require one of the following procedures:

- FlexiTop wearing course laid on 35mm of open textured Tarmacadam and 100mm (minimum) of compacted MOT type1.
- FlexiTop wearing course laid on 100mm concrete substrate. Adequate drainage to be provided by drilling 30mm diameter holes at 1m centres, or by using no fines concrete.

Repairs and Maintenance

A sub base with adequate drainage is essential to ensure that water can be removed from the surface. Over time the surface may become dirty if the interstices between the granules become blocked. To maintain FlexiTop's non-slip qualities consider using Redlynch's RubberScrub service to clean surfaces, kill moss and moulds and remove general filth and grime.

Should repairs be required due to vandalism or excessive use the existing surface must be completely dry. The edge to the repair area must be fully primed before the installation of the repair material.

Testing

FlexiTop is tested according to the requirements of BS EN1176 and BS EN1177.

A full technical specification is available on request.

Contact us:

Tel 01249 444537

E-mail info@redlynchleisure.co.uk