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Installation Guidance for Football Turf

Thank you for purchasing the artificial turf products from Shandong Qingyuan Sports Facilities Co.,Ltd. Please follow the recommendations as below to install and maintain the artificial turf.



1. Construction Preparations：

The foundation of the field plays an very important role in the artificial turf field. The flatness, stability and drainage system of the site foundation will affect the performance of the artificial turf. Therefore, before the artificial turf is formally paved, the following construction preparations should be done:

1.1 The foundation generally adopts cement concrete, asphalt, stone layer and other foundations, which have certain strength and stability.

1.2. The foundation can not have cracks, peeling or sanding.

1.3. For the flatness of the foundation, the tolerance is less than 6mm by the 3m ruler. The site must have a certain slope and meet the site drainage requirements.

1.4. The surface of the foundation should be kept clean and dry. After the cement concrete foundation is completed, 28days maintenance period should be guaranteed to

ensure sufficient bonding strength of the foundation surface.

2. Measurement and positioning

In order to ensure the quality and flatness of artificial grass, and at the same time ensure the appearance and performance of artificial grass football field, the artificial grass paving procedure is as follows:

2.1 Find the center point of the site and the center of the two semicircles,and place the ruler according to these three positioning points to determine the intersection point of the center line and side line of the field, and then determine the exact positions of the corner, points, and lines of the field, and use ink or paint lines to pop up.

2. Football field pavement

3.1. Artificial grass glue must be stored in a cool place indoors. Quartz sand and rubber granules can be stored in the open air, but quartz sand must be protected from rain.

3.2.The installation team should spread the artificial grass rolls one day on the ground according to the layout drawing to release the stress of rolling, so as to avoid problems such as cracking or bulging of the artificial turf joints due to the stretching and deformation of the artificial turf after the paving is completed. .

3.3. In order to ensure the outlook of football field, when paving the artificial turf, try to ensure same falling direction of the grass yarns.

3.4. After the artificial turf rolls are unfolded, cut off the white functional line weaving on the outside of the field before formal paving, and put it aside for later use.
3.5. During the artificial turf paving process, the seams between each roll of artificial turf should be overlapped by 2cm~3cm, so that two adjacent rolls of artificial turf can be overlapped as closely as possible.

3.6. Spread the 20cm~30cm wide joining tape along the seam of the artificial turf and place it under the artificial turf, so that the seam of the artificial turf is located in the center of the joining tape as far as possible. Then apply the artificial turf glue evenly on the joining tape with a scraper. Do not apply glue repeatedly, otherwise foaming will occur. After the glue produces a cohesive force (generally 10-30 minutes after the glue is applied, the glue should reach 80-90% dry and which is not sticky to the

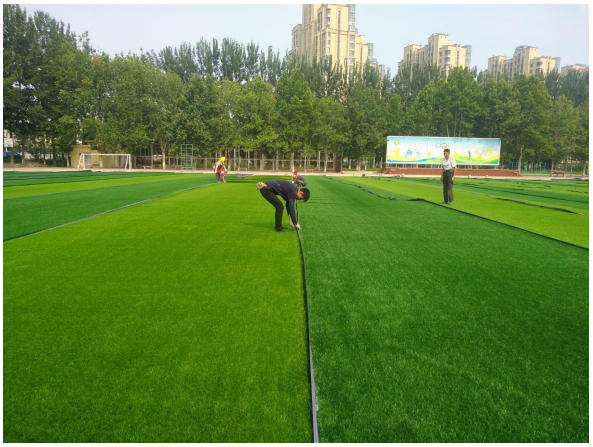
touch), then put the artificial turf on both sides together and beat them with a rubber hammer to make sure the joint tightly bonded. When bonding, it is required to align and stick firmly at one time, and the artificial turf to be bonded must not be moved back and forth after bonding.

3.7. To fix the joining tape and ensure the bonding effect of two adjacent artificial turfs. Glue is applied in points between the joining tape and the foundation, and at the same time, the suspended state of the artificial turf is conducive to drainage and release of displacement caused by thermal expansion and contraction during use.
3.8. After the artificial turf is basically spliced, pull the ruler again to determine the position of each functional line and point of the field, cut it with a paper knife, pull out the cut grass,and put the joining tape, and put the original prepared white grass in, and beat it with a rubber hammer to make the joint bond tightly. It is more difficult to draw arcs in narrow areas such as corners. The white functional line can be cut into small pieces and then spliced piece by piece.

3.9. The ambient temperature should be above 5°C for construction. During the artificial turf paving process, if it encounters rain or snow, the turf construction should stop working immediately, and the paved and unpaved artificial turf should be covered with a rain cloth to facilitate the glue Freezing time. If the construction site encounters stormy weather, it is also necessary to stop the construction work immediately, and if there are impurities on the site due to strong winds, it is necessary to clean up the site garbage to ensure the cleanliness of the site.

3.10. After the artificial turf is all bonded, start to brush with a grass brushing machine to make the falling grass yarn stand.

3.11. The curing time of the glue is generally three days, and the final strength of the test is generally ten days. Pay attention to maintenance during the curing of the glue, avoid exposure to sunlight, water immersion and movement until the best situation of bonding has been achieved.





4. Laying of quartz sand and rubber granules

4.1. After all the paving of the artificial turf is completed and passed the acceptance inspection, the artificial turf will be filled with sand.

4.2. Quartz sand should be dry, clean and free from floating ash. Fill with quartz sand according to the filling amount of about 20-30 kg/㎡. Before the sand is formally filled, it is better to have a test to determine the final thickness and quantity per square meter. After the thickness is determined, the sand infilling equipment will fill the sand at a constant speed from the outside of the site to the inside. The sand filling of the whole site should be completed in multiple times. The sand filling in each time should be uniform and even. Each time it is spread, it must be combed repeatedly with professional brushing equipment, so that the quartz sand can be filled to the root of the grass yarn as required. At the same time, ensure that the grass yarn is not buried by sand.

4.3. After the quartz sand pavement is completed, it is necessary to use a grass brushing machine to brush the whole field, and brush it vertically and horizontally, and then lay rubber granules.

4.4. The rubber granules are infilled from the outside to the inside as the quartz sand is infilled, and the laying amount is about 4-12 kg/㎡, and the forward speed and paving amount of the paving machine must be uniform. After the elastic granules are laid, it is necessary to check whether they are smooth and sufficient, and the insufficient parts need to be paved accordingly.

4.5. After the filling of quartz sand and rubber granules is completed, the rubber granules are required to be about 10-15mm lower than the grass surface.

4.6. After all the filling is completed, brush the artificial turf vertically and horizontally with a grass brushing machine to make all the grass yarn stand.







5. Acceptance of artificial turf paving

5.1. The color of the artificial grass is uniform, the edge line, bottom line and point line are smoothly and straightly, the color is uniform and there is no color difference.

5.2. The width, size and positioning of each function line and point line are accurate, and the size of the function area meets the standard. The marking colors and sizes of various function lines and point lines must comply with the requirements of FIFA regulations. The tolerance is not more than 2 cm.

5.3. There is no obvious gap between the joints of the two turfs, and the bonding is compact and does not open.

5.4. The surface of the filled sand and rubber granules is clean and full, and the tolerance range of the flatness of the site shall not exceed 1cm of a 3m ruler.

5.5. Any phenomenon such as arching and cracks are not allowed.