

## GeoTurf Responses to District Questionnaire

1. Describe the manufacturer recommendations concerning annual maintenance and repair. Include whether water or chemical agents (including anti-bacterial agents) are recommended and, if so, the quantity and frequency of application. Routine maintenance includes weekly checking and removal of dirt, checking areas of heavy rainfall, and checking to see if “refilling” is necessary in high use areas. Monthly brushing of fibers, checking of seams, checking of drainage and irrigation systems and watering and cleaning is also needed. Use of chemical agents or anti-bacterial agents is not mandatory but will not harm the system if used.
2. Describe the durability of the field, including the hours of potential use per day and number of days of potential use per year. Indicate whether the durability changes over the estimated lifetime of the field. There is essentially no limits of use on the synthetic fields however, the greater the use the greater the need to properly maintain the surface. Durability will not change over the life of the field. The only change would be a potential rise in Gmax, but not exceeding the 145 specified limit. Drainage may also slow over the life of the field, but again not going below the 14 inches per hour.
3. What is the estimated lifetime of the field? The Geo Turf system is guaranteed for 8 years and backed by 3<sup>rd</sup> party insurance, but with proper maintenance could last between 10-12 years
4. What is the product warranty (for what period is the field guaranteed to be usable and meeting applicable standards, and what is the remedy if it does not)? 8 year warranty with proper maintenance. If at any point during the 8 years the field falls below the specified standards we will fix at our cost. If the problem can't be corrected then a replacement will be provided.
5. Does a single warranty cover all aspects of the artificial field's soil base preparation, base materials, artificial turf materials, etc.? Will there be separate warranties and warranty voiding conditions for each element, some of which could contravene each other? Our warranty backs the turf, infill and installation. We will not install a system until we approve the sub base. The warranty is voided if proper maintenance is not performed or the field is neglected.
6. What is the cost of replacement at the end of the warranty period? The necessary sub base work needed to prepare for another synthetic field can vary, but will normally be cheaper than preparing the initial base. Typically a new field will cost the same as the initial installation because all new materials will need to be installed.
7. Are recycled materials used to manufacture the field material? Our infill is comprised of 100% pre-consumer recycled material. The coconut fiber is from coconut processing while the cork is the left over from wine bottle corks. The backing also contains up to 30% recycled vegetable matter in the polyurethane blend.
8. Is the field material recyclable upon replacement? The organic infill can be reused or recycled as mulch, thermal blanket, etc. The synthetic fibers are also recyclable.
9. What is heat of the field compared to conventional grass on a warm, sunny day? What can be done to mitigate excessive heat? InfillPro Geo's ability to maintain cooler temperatures by retaining water is one of the greatest benefits of a GeoTurf system. In comparison to natural grass, it will heat up a

little more, but in comparison to other infills such as sand, rubber, or thermoplastic there is a significant reduction. Water can be used in the cooling process as well and since the fibers can absorb the water, the cooling effect is much longer when compared to other fills.

10. What certification does the manufacturer/vendor supply regarding the presence or absence of chemicals on California's Prop 65 list? Our product has been tested by Paradigm Labs for presence of toxic chemicals, lead, and other heavy metals. The only findings were of natural plant extracts. We are also in the process of repeating the tests with the newer version of Geo and will forward the results.

11. What is the risk of bacteria and mold growth in the material? What can be done to mitigate this risk? Cork is a bark which is naturally resistant to bacteria and growth. In regards to concerns about MRSA and other spread of disease, an anti-bacterial treatment can be applied but it is not deemed mandatory by our factory.

12. What is the risk that the field material will aerosolize (become respirable)? What can be done to mitigate this risk? As with any infill material or even natural soil there is a chance of it becoming respirable. Because the material is 100% non-toxic and natural there is no associated health risks. There is also no risk of water or soil contamination as well.

13. What is the risk that the field material will migrate off the field, including but not limited to migration into the storm drain system? What can be done to mitigate this risk? The system was designed to greatly reduce migration. The fibers absorb the water upon installation and weave themselves together and around the turf fibers while compacting. There will be the need for minor "refilling" with use as covered under maintenance

14. What is the longest period of time the field being specified has been in use at another school, college, or university? The InfillPro Geo has been in testing since 2005, however the first installation was in 2007. There have since been about 200 field installations worldwide, with 2 fields now in the US, 1 in Canada along with 3 smaller installs as well in the US. The systems has been rigorously tested by the factory and had also had a 2<sup>nd</sup> consecutive FIFA 2 star field in Teramo, Italy which is a great honor.