Tyres Herco SA



MONTHLY JOURNAL OF

TYRE

this issue

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Tyres Herco Factory Open through August to meet increased demand

Fact Sheet: Crumb Rubber Infilled Synthetic Turf Athletic Fields

Purpose

ISSUE

There are several kinds of synthetic turf surfaces (e.g., surfaces that use a fill material ("infill") between the blades of artificial grass and those that do not), and synthetic turf may be installed for different uses (e.g., single or multiple sport athletic fields, landscaping, golf applications). The focus of this fact sheet is athletic fields with crumb rubber infilled synthetic turf. This fact sheet was developed to assist people in making decisions about installing or using this kind of synthetic turf fields are not addressed in this fact sheet.

Background

The first well-publicized use of AstroTurf, a synthetic turf for athletic fields, was at the Houston Astrodome in 1966. This first generation of synthetic turf was essentially a short pile carpet with a foam backing. Since then, design changes have resulted in a greater variety of synthetic turf athletic fields. One type of synthetic turf is fabricated using synthetic fibers, manufactured to resemble natural grass, and a base material that stabilizes and cushions the playing surface. The fibers are typically made from nylon, polypropylene or polyethylene and are connected to a backing are worked in between the fibers during the installation process. Commonly used base materials are granulated crumb rubber (usually from used tires), flexible plastic pellets, sand, and rubber-coated sand. A combination of sand and crumb rubber is often used.

Crumb rubber is produced by grinding used tires. Steel and fiber tire components are removed during the process and the rubber pellets are sorted by size. Pellet sizes ranging from about onesixteenth to one-quarter inch in diameter are used on synthetic turf. Crumb rubber is typically applied at a rate of two to three pounds per square foot of field surface. **Heat stress:** Surface temperatures on crumb-rubber infilled synthetic turf fields can reach levels of discomfort and may contribute to heat stress. This warrants consideration when making decisions about installing and using a synthetic turf field. While watering synthetic turf may briefly reduce surface temperatures, a number of factors may influence its effectiveness. People using these fields should be advised to remain hydrated and to seek relief from the heat in shaded areas.

Injury: Overall, studies have found no consistent differences in injury rates between natural and crumb-rubber infilled synthetic turf.

Infection: Skin cuts and abrasions that may result from contact with athletic fields (natural and synthetic turf) are susceptible to infection. Athletes and others developing skin abrasions should clean the wounds and seek prompt medical attention. Athletes should avoid sharing equipment, razors, towels, soap and other objects with others, because these items can spread germs.

Latex allergy: At the present time, NYSDOH is unaware of any occurrences of latex allergy resulting from contact with crumb rubber or synthetic turf fields.

Chemical exposures: Based on the available information, chemical exposures from crumb rubber in synthetic turf do not pose a public health hazard.

Source: New York State Department of Health http://bit.ly/7UKlyp



INTERNATIONAL NEWS

TYRE AND RUBBER RECYCLING

Herco: Greek Rubber Crumb Specialists



Herco's state of the art plant produces some of the finest rubber granulates and powders available in Europe

Tyres Herco is one of the most modern and efficient tyre recycling plants in South East Europe. It is a venture capital backed company that manufactures rubber granulates, powder and steel products of superior quality. Its products are exported to over 31 countries in Europe, Middle East and Asia. To ensure the highest purity Herco's ultra modern factory uses state-of-the-art technology from German firm Amandus Kahl GmbH, to produce crumb rubber granulates by ISO 9001 standards and certified by SGS as per DIN and FIFA requirements. Crumb rubber gives athletic fields the extra cushioning and bounce that rubber is known for, which is a real boon for athletes. Crumb rubber is a terrific asset in wet weather, since it drains instantaneously and provides the

Tyres Herco Factory was featured on Tyre And Rubber Recycling magazine, Issue No. 9, 2011 1/2. extra traction that keeps fields safe, even after the rain.

Some question the use of crumb rubber on the basis that it can contain remainders of steel wire. Herco guarantees that its crumb is wire free.

Herco crumb rubber passes through state-of-the art magnets, a process which completely removes any residual traces of steel. These extra precautions enable crumb rubber to be guaranteed 99.99 per cent steelfree.

There are then questions from end users about the stability of crumb rubber, will it fall apart, disintegrate, or decay?

The process that all tyres undergo renders them basically indestructible. Since Herco crumb rubber is made of 100 per cent tyre rubber, it will not decompose or crumble. Repeated research in the USA and in Europe has shown that the run-off from artificial sports surfaces is not a health issue. Crumb rubber holds on to just enough moisture to prevent dust and slipperiness from building up, while draining excess moisture almost instantaneously. So, a crumb rubber based sports surface remains stable and tactile throughout its lifespan.

Crumb rubber gets incorporated into the ground surfacing, and will almost never be impacted by winds or rain. The construction of a sports surface is not simply a process of spreading crumb rubber, there is a structured build up of the base and in the case of artificial turf the crumb is spread between and below the "grass". In running tracks and sports courts the crumb is bonded to create a stable surface with a technologically advanced grip. FIFA President Joseph S. Blatter has a clear idea when it comes to raising the standards of the beautiful game. "As football's world governing body, we have a responsibility to support any move to improve football equipment," he said. "In raising the standards of football turf surfaces, the FIFA Quality Concept will also help improve the level of the game."

International recognition of our efforts is a real honor for us. It keeps us motivated to constantly strive to keep our customers from 31 countries in the world satisfied, not only with our quality products, but also with our personalized service for a unique customer experience.

Easy steps to being Green for 2011. Which also improve your finances!

Small adjustments to how you manage your business and personal life can make a big difference to your impact on the planet, your health, your disposable income and your company's performance. It's not about what you do in your daily routine, but how you do it, how much it costs you and learning about how that effects the environment.



If we all adopt the changes that work for us, we can vastly improve quality of life where we live and across the planet today, as well as being part of the solution which ensures the planet can support life for future generations. Both the problem and the solution are collective - that's why every time you consciously switch off the air-conditioning, save water or buy green, you are contributing to the solution.

If you think about it, we all want to eat tastier food which has been produced without pesticides and artificial fertilisers. If we demand it by buying it, this encourages producers to adopt environmentally-sound agricultural practices, which increases supply and dramatically reduces or eliminates pollution of ground water, the air and ourselves. At the end of the day, being a conscious consumer puts you in control of what you will find on the shelves.

Embracing sustainable management and production practices as a business can visibly reduce overheads, improving your ability to survive a crisis, reducing risk and thereby improving loan conditions and relations with investors. As with our daily routines, it does not have to be all or nothing; every action is significant."



what is Upcycling? *

Upcycling. 2011's greenest decorating trend.

Every day, people everywhere churn out mountains of plastic and non-biodegradable waste which threaten to eclipse our living spaces. At one point in time people all over the world simply threw their "waste" onto the ground where it was reabsorbed into the earth. The idea of waste as we know it today was a completely foreign concept. Modern attitudes around waste and our general lack of awareness about the amount and types of trash we produce indicate the desperate need for

"Nature does not know the concept of waste; the only species capable of making something no one desires is the human species." -Gunter Pauli, Zero Emissions Research and Initiatives

an innovative new approach to this issue. Upcycling, the practice of converting waste materials into products of greater value, is a philosophy that transforms the way we conceive of waste. Upcycling is not just a solution to a problem, but a new method of thinking about and working with an asset (formerly known as garbage) which is already present in abundance in our communities.

And you can upcycle at home or at the office. Make an apron with the fabric from an old dress, turn a leaky rubber boot into a cute planter by adding a few extra holes for drainage, or transform a broken stapler into a modern paperweight with a little low-VOC spray paint.

Sources: <u>http://bit.ly/prmkC</u>, Cara Smusiak <u>http://bit.ly/</u> <u>bvSytk</u>

This Month's Q&A Recycling Tips

What's better for the environment, kerbside or "comingled" collections?

Kerbside collections are where householders separate different types of recycling material, such as glass and paper, while "comingled" means that all the material for a home's recycling goes into one box or bag, and is then sorted at a facility.

Wrap says that kerbside collections, when possible, are the best choice for high quality recycled material and cost effectiveness. Some industry experts suggest that comingled collections increase recycling rates, but also increase the amount of contaminated material - cardboard splattered with curry sauce, say - which then ends up in landfill.

Doesn't driving to the bottle bank release more CO2 than I save by recycling glass?

No. According to recycling experts Best Foot Forward, you're saving carbon by driving glass bottles to the bottle bank - provided you take at least two wine bottles and don't drive further than one kilometre. If you double up your trip for another purpose or recycle other materials while you're visiting the recycling centre, the net carbon balance looks even better.

How to keep tyres cool

Keeping your car's tires cool is an important safety measure. An overheated tire can cause significant reduction in tire tread and lead to more serious problems

Store your car in a cool place whenever possible. Park your car in a garage or shaded area on hot, sunny days. Try not to expose your tires to direct sunlight for prolonged periods of time. Driving a car with tires that are already heated makes the tires more susceptible to overheating and damage.

Have your brakes checked on a regular basis. Worn or faulty brakes can lead to unnecessary stress on your tire, which can cause the tire to overheat. If you experience pulling, grinding or vibration, or if you suspect that there may be a problem with your brakes, have them checked by a qualified mechanic immediately.

Inspect your tires to make sure they are properly inflated. Check your tires for any noticeable leaks. Examine your tires when they are at their coolest. Poorly inflated tires can cause stress to the tire, and contribute to the tire overheating.

Balance and rotate the tires on a regular basis. Having tires balanced and rotated will ensure that the tread wears evenly and that one tire does not incur too much stress. Fill your tires with nitrogen instead of regular air. Nitrogen helps keep tires cooler and retain pressure.

Replace old, damaged or worn tires. Tires can be damaged on the inside without your knowledge. Meet with a qualified mechanic or tire specialist to determine whether you need new tires. Never drive with warped or damaged tires, as this creates risks for yourself and other motorists.

Source: http://bit.ly/iNII0a

Product Info: Tyre Wire Scrap

From the recycling process, a considerable amount of steel comes from the used tyres. This is then used by steel factories.

Specifications

Tyre wire scrap is a malleable steel, characterized by High Tensile Carbon Steel (Carbon content: 0,82%).

Misc. materials (mainly rubber): 3-6% weight

Steelcord scrap is shaped in chopped wire form (wire diameter: 0,20 - 0,80 mm) and is obtained through the grinding of waste tyres, after a magnetic separation from the rubber granules.

CER CODE: 19.12.02 BASEL CODE: B 3131 HS CODE: 7204.49.0000 ISRI CODE: 279-280

Packaging: 21TN loose/ bulk in 20ft container



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Featured Stadium Moutallos Stadium Paphos (Cyprus)

Paphos new sports stadium: Ornament for the Moutallos district.

The efforts of the Youth Committee, Social Welfare and Sports of the Municipality of Paphos for creating new and modern sports facilities in the city were great. The result of this effort is the creation and operation of the sports stadium in the Moutallos district. The stadium is used by two football clubs in the neighborhood.





MOUTTALOS FIFA is pleased to confirm that SOCCERPRO MS 60 by LIMONTA SPORT S.P.A has been installed at MOUTTALOS - PAPHOS (CYPUS)

From 5 APRIL 2011 to 4 APRIL 2012 this installation has been certified according to the "FIFA QUALITY CONCEPT FOR FOOTBALL TURF – 2 STAR".

> Field No. AF3292.1 Zurich, 5 April 2011

M. Joseph S. Butter dent Federation Internationale de Football Associar www.FIFA.com/footballturf



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