SanJoseGreenHome.com

Exploring Sustainable Lifestyle Options at Home



Fake Grass, Synthetic Turf or Stepford Lawns?



Synthetic turf can look just as real grass from a few feet away but does it hold water with its new eco claims?

Installing synthetic turf has become all the rage recently. It was even featured on some Bay Area local channels. Commonly known in the past as astro turf, it has been reinvented, repacked and now called 'eco turf.' It is being touted as the latest in green landscaping. There is even a striking list of ecological "solutions" that this product addresses. Those include no mowing, no watering or expensive irrigation systems, no weed control, and no other maintenance headaches like fertilizing and hauling away grass clippings.

The latest synthetic turf is even manufactured from recycled plastic and is recycable at the end of its life. Your kids can play on it in the rain and won't get muddy. It is wheel chair accessible. So it seems like we have solved a horde of environmental issues with one product, so what's not to love?

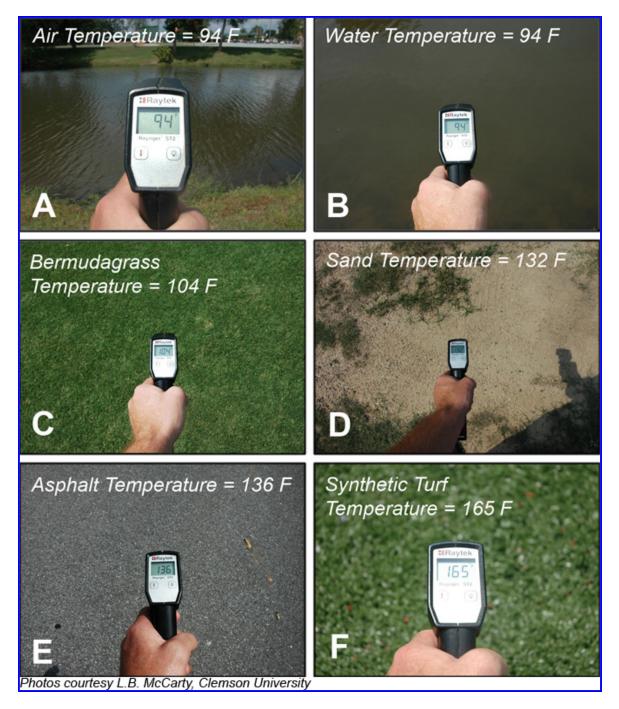
Stepford Lawns

Do you recall the part in the movie, The Stepford Wives where one of the Stepford wives gets stabbed and it messes with her wiring and she starts repeating "I thought we were friends, I thought we were friends? That's what I imagine synthetic turf is saying when I stab it with my accusations of it being a pseudo green product. Like my friend Owen Dell would say, it's kind of like organic heroin, organic or not it is still fundamentally a bad idea.

Aromatherapy it's not

I'll begin with the deceptively simple argument that my primary distrust of synthetic turf is based on the fact that it is not alive. It does not breathe and therefore it offers no oxygen as a byproduct. On a warm day the entire area around a synthetic playing field reeks of melting off-gassing plastic, not an enjoyable smell. It certainly is not aromatherapy. Again because the stuff is not living and breathing the cooling effect is absent and thus the heat island affect is increased. The 'heat island' refers to the phenomena in which urban air and surfaces sustain higher temperatures than nearby rural areas.

The images below comparing air, water, bermudagrass, sand, asphalt, and synthetic turf surface temperatures illustrate how hot a synthetic field can reach during a warm day.



Crumbled automobile tires are included in synthetic turf to mimic the look and feel of soil. Cool, a new way to recycle tires? The problem is that this 'soil' is dead and in addition during rain it leaches carcinogens, hazardous chemicals, and heavy metals such as lead, cadmium, zinc and arsenic. This leachate is considered toxic runoff. Where does it go? Straight into our rivers, creeks and oceans. Replacing natural grass with synthetic turf is not a carbon-neutral process especially considering that natural grass helps eliminate Co2, one of the major green house gases, from the atmosphere, synthetic turf however does not.

Guinea Kids

<u>Findings from a study</u> published by <u>The Connecticut Agricultural Experiment Station</u> in 2007 shows numerous chemicals that are detrimental to human health present in tire-crumbs commonly used in synthetic fields.

The composition of ground rubber was investigated in the Connecticut study and it was determined that the chemicals leached by crumbled tires exceed the cancer risk threshold in young people, children, and babies. The Synthetic Fields Task Force for the city of San Francisco identified eleven health and environmental issues of public concern. The report could not determine the safety of children using synthetic turf with tire waste or if it is harmful to children's health. It did confirm that the ground up tire waste contains quantities of lead, carcinogens, and other hazardous chemicals that are unregulated. The report also noted that controlling virulent bacterial growth in tire waste fields poses a significant challenge. Our kids are now expected to play on a low level toxic surface. During strenuous activities they breathe in these toxic off gasses. Because plastic is not an inert substance, it both leaches and off-gasses pieces of itself. Plastics are known to release endrocrin disrupters because it contains zeno estrogen. Zeno estrogen can wreak havoc with the puberty cycle in the human body. With synthetic turf there is direct and close contact with the lungs and skin of the growing bodies of children. This would not seem to me to be a great combination. We are acting as if the jury is still out regarding the detrimental effects on human health from synthetic turf. Just call our kids guinea kids.

Because of the toxic runoff and drainage issues this is a product that is not healthy for the watershed. I interviewed a worm regarding this product and it was none too happy about it to say the least. The soil food web, the vast 'web' of life in the soil beneath our feet is under extreme duress under synthetic turf, primarily because this soil is deprived of oxygen. No oxygen, no life. Much of the current product being installed today in playing fields is made from unrecycled virgin plastic, a petroleum product that adds to global warming in its manufacture.

Our children's trust

The health and safety of our children is at stake. They rely on us to provide them with a harm free place to play. Our duty is to live up to that trust amidst all of the marketing hoopla about synthetic turf. Hasn't synthetic turf been around before? Fool us once, shame on you; fool us twice, shame on us. Let us not be fooled again by the alluring language of this supposed 'green' product.

*Information is included in this article from an article in the Fog City Journal.



Ken Foster, is a landscape contractor and the owner of Terra Nova Ecological Landscaping. Ken is a certified permaculture designer and gives talks on topics related to sustainable landscaping including 'Fossil Free Landscaping', sustainable design, hardscape and softscape installation and maintenance. He is a native of Santa Cruz, California. Ken can be found at Terra Nova website http://www.terranovalandscaping.com

Share and Enjoy: These icons link to social bookmarking sites where readers can share and discover new web pages.

- f
- in
- . **ચ**
- . 😉
- 88
- •
- G
- •
- c S
- . S
- . 4
- . <u>E</u>
- **b**

Tweet This Post

Categories: Environment, Family & Pets, Greenwashing, Health & Wealth, Lawn & Garden

tags: Environment, Health, Kids, Landscaping

Comments

Brian Debasitis says:
January 10, 2010 at 10:13 pm

Another little known issue with synthetic grass is how much it needs to be sprayed! I talked with some grounds maintenance workers from Palo Alto about a year ago and they told me they have to spray the synthetic turf more than they sprayed regular grass. They synthetic grass needs to be sprayed with disinfectants. Because it's synthetic, it's a breeding ground for pathogens. Even though it may not get irrigated, it needs to be washed once in a while.

We don't need more of the plastic industry's problems put out on our landscapes.

Nate Crosby says:
January 17, 2010 at 6:14 am

Great article Ken! Thanks for the clear picture that includes the issue with tires pieces. I have heard of kids injesting the tires when playing sports like football. The surface is also much harder on the body, as it doesn't give like soil does. My kids school has the plastic grass pieces that get loosened by use, floating across campus into fencing and nearby plants. Often, I find the tire pieces in my kids shoes. When it rains, both the plastic and th tires pellets roll into the storm drains.

The trash-like gum, wrappers and miscellaneous small things, that accumulates from people on the turf is hard to pick up. The school maintenance crew has to run a vacuum across the 'turf'-which is really pathetic as most of it stays like lint on a sweater. At least with real grass, when someone spits or cuts themselves, I have the idea that the soil biology probably eats it up.

Reply





Author Spotlight

Guest Author



There are multiple guests who regularly contribute informative posts. Their info is featured at the bottom of the post. If you have something on your mind and would like to share your ideas please contact us directly. Your advice and contribution to this Blog is valued by the community of San Jose and entire Bay Area.

More posts by the Author »

Let's Stay in Touch. Follow New Posts on:



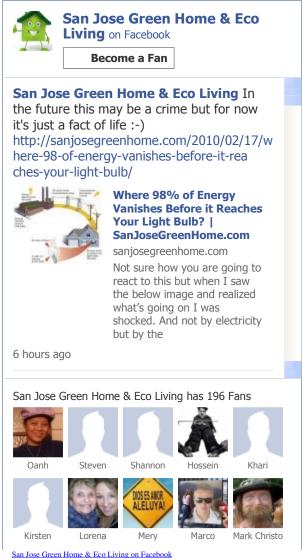












Recent Comments

cecii Comments

- Pat on Mary, Mary, Quite Contrary, How does Your Water Wise Garden Grow?
- Radiant Barrier on Green Building in San Jose is Alive! Tour of 2048 Calaveras Rd.
- Tadas on Secrets of Residential Solar Lease Sweet Deal or Disastrous Rip-off?
- Jamie on Secrets of Residential Solar Lease Sweet Deal or Disastrous Rip-off?
- Tadas on Secrets of Residential Solar Lease Sweet Deal or Disastrous Rip-off?

Topics

- Eco Smart Remodeling (9)
- Energy Conservation (13)
- Environment (19)
- Family & Pets (4)
- Green Building (1)
- Green Living (13)
- Greenwashing (6)
- Health & Wealth (6)
- Home Retrofitting (6)
- Indoor Air Quality (2)

- <u>Inspiration Corner</u> (4)
- Just For Fun (1)
- <u>Lawn & Garden</u> (5)
- Local Issues (12)
- Real Estate (4)
- Rebates & Incentives (3)
- Solar Energy (3)
- <u>Videos</u> (6)
- Waste Reduction (3)

What Does Your Lawn Need?

Corn Gluten, Lime & Sea Kelp The Natural Recipe for Spring Green www.ChippersInc.com

Used Turf

New, Used and Overstock Turf. From \$1.00 sq ft. Call On Deck Today!

www.ondecksports.com/usedturf

Sustainable Buildings

Making your buildings green & efficient. Siemens Green Buildings.

buildingtechnologies.siemens.com

Ads by Google



Tadas Narauskas

EarthyTadas

98% of Energy Vanishes Before it Reaches Your Light Bulb? In future this may be a crime but for now it's a fact of life http://bit.ly/akH6eS

6 hours ago

Enough with the climate debate already... Can't we see that a more sustainable energy future can be looked at as an independent issue?

yesterday

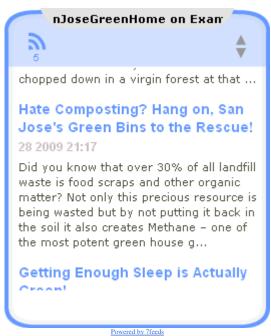
Funny part from Jon Stewart's show clearly portraying common misunderstandings about global warming... http://bit.ly/alxdha

4 days ago

Just toured a newly built energy efficient home in San Jose and made a short video to share with you. Check it out: http://bit.ly/cZY7eF

7 days ago

Lwitter Join the conversation



Recent Forum Posts

• What eco friendly cleaning products are you using?

posted in forum Green/Eco Friendly/Sustainable Products by Tina Blease on January 26, 2010 at 12:15 am

• Residential wind turbines?

posted in forum Energy by Tadas on January 25, 2010 at 11:12 pm

• Send a message to US Chamber of Commerce from AVAAZ?

posted in forum Politics, Local and Global Issues by Tadas on December 25, 2009 at 7:35 pm

• Shower head filter anyone?

posted in forum Green/Eco Friendly/Sustainable Products by Tadas on December 20, 2009 at 10:29 pm

• Welcome to the Green Home Forum - PLEASE READ THIS

posted in forum General Discussion by Tadas on December 19, 2009 at 11:34 pm

Ease into Green on Amazon!



Tags



Greenalicious Stories

- Did Bill Gates Just Give the Most Important Climate Speech of the Year? | AlterNet
- Can Yogic Philosophy Save the Planet? : Planet Green
- Cupertino residents now need city permit for landscaping projects San Jose Mercury News
- ***Use of potentially harmful chemicals kept secret under law
- San Jose, home developers balk at proposed air pollution guidelines San Jose Mercury News

Siemens Green Buildings

Integrated building technology made by Siemens. More here! buildingtechnologies.siemens.com

Sports Field Design

Design & Engineering Services Natural & Artificial Turf Surfaces www.huntressassociates.com

Synthetic Grass Warehouse

Contractors & DIY Artificial grass Synthetic Grass & Putting greens \$1

www.syntheticgrassstore.com/

Ads by Google



Click here to check out
The Bay Area Green Biz Connection!

Powered by WordPress | "Grassland" from Spectacu.la WP Themes Club

© 2009-2010 SanJoseGreenHome.com All Rights Reserved

- Home
- About
- Forum
- Resources
- Contact Us