



November 2014

Attwood Equestrian Surfaces

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Attwood is in China



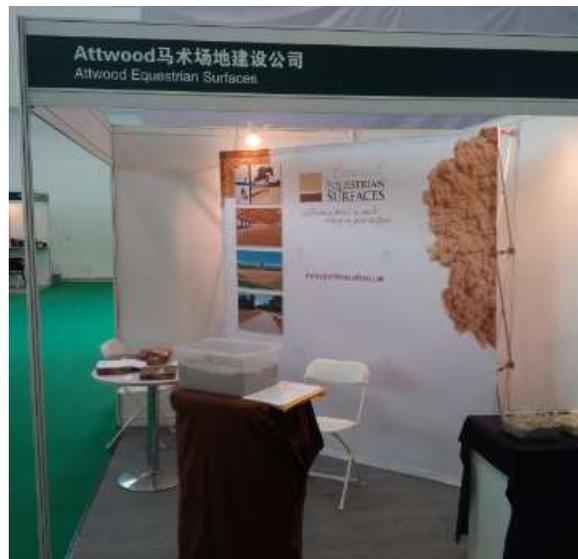
Beijing: We are delighted to announce our diversification into Mainland China at the China Horse Fair 2014 in Beijing. This marks yet another step towards expanding into markets outside of our traditional bases in North America.

The three-day event was exciting as we had numerous equestrian enthusiasts visit our booth and discuss our products. We were also invited by a few arenas to visit their site and discuss the possibility of installing Attwood surfaces.

Speaking on the sidelines, our President Nick Attwood said, *“There are many companies from Europe trying to penetrate the Chinese arena and footing market. They have had some success selling wax-based products and other types of footings made from carpet scrap, etc. Of course we believe our products are superior. Many are trying to import recycled carpet scrap and are finding it difficult to import material which is labeled “Waste” or “Trash”. All our additives are virgin materials which should make importing a little easier for us.”*

Nick went on to say, *“We know this is a long term project! It’s a very exciting time to be working in Asia.”*

The highlight of the event was a speech made by Nick on the properties of good footing. In his speech, Nick stressed upon how important it is to get the footing right, as it helps riders get their horses to perform better and stay healthy for longer.



For more pictures and updates, please visit our twitter page, www.twitter.com/attwoodsfaces.
Contact us for a copy of Nick's presentation.

Asian Games 2014

The host nation of the Republic of South Korea dominated the medal podium during the equestrian events at the Asian Games 2014 at Incheon winning all the top honours in Dressage and Eventing.

It was the fifth consecutive win for South Korea in Dressage Team competition in which Japan took silver ahead of Chinese Taipei in bronze medal spot. The team from Indonesia finished a very close fourth while China, India and Thailand filled the remaining places on the leaderboard in that order.

The Dressage test for the team competition was Prix St Georges, but it was Intermediate Freestyle that decided the individual medals which were awarded at the Dream Park equestrian venue three days later. And this time South Korea's Hwang had to settle for silver medal spot as team-mate Kim reigned supreme.

In Eventing, the South Korean team proved untouchable from the outset helped in no small way by the leading dressage score of 37.90 from the anchor partnership of Sangwuk Song and FRH Fantasia who went on to also claim the individual title. It was Wonjae Hong who provided the drop score in the Dressage phase when posting 49.40 with Calloa Vanhet Kloosterhofz, but on cross-country day Jaisik Cheon and Pilot Cutter added 20 penalties to their scoreline so the 0.40 for time collected by Hong was the only thing added to the host country's



Results at a glance

Dressage Team Competition: Gold - Republic of Korea 71.746: Dark Secret (Kyunsub Kim) 68.816, Royal Red (Yooyson Chung) 69.658, Finally (Dongsson Kim) 71.237, fursteuberg (Youngshik Hwang) 74.342; Silver - Japan 69.842: Freestyle (Mayumi Okunishi) 68.895, Winnetou DDH (Kazuki Sado) 69.184, Pacific B (Tomoko Nakamura) 68.947, Veranus (Shingo Hayashi) 71.395; Bronze - Chinese Taipei 67.386: Daquino (Ko Wen Wang) 56.763, Nora (Yu Chieh Chang) 67.553, Temptation (Li Yu Kuo) 67.395, Urban Legend (Hsiu Hua Yeh) 67.211.

Dressage Individual Competition: Gold - Finally (Dongsson Kim) KOR 77.225; Silver - Fursteuberg (Youngshik Hwang) KOR 76.575; Bronze - Wallenstein (Larasati Iris Rischka Gadin) INA 74.075.

Eventing Team Competition: Gold - Republic of Korea 133.00: Pilot Cutter (Jaisik Cheon) 63.10, Calloa Vanhet Loosterhofz (Wonjae Hong) 53.80, Thomas O'Mally (Siro Bang) 41.30. FRH Fantasia

tally going into the final afternoon following great clears from both Song and Sire Bang riding Thomas O'Mally.

Sangwuk Song was the clear individual champion when adding nothing at all to his excellent Dressage mark with his 14-year-old dark bay German-bred mare. The 41-year-old rider is something of an all-rounder, having competed in Jumping at the Asian Games in Doha, Qatar in 2006 where he was on the silver-medal-winning team, and in Eventing at the last Games in Guangzhou four years ago.

For more coverage, visit the official FEI website.

(Sangwuk Song) 37.90; Silver - Japan 142.50: Toy Boy (Tae Sato) 56.30, Fairbanks Cargo (Takanori Kusunoki) 52.10, Just Chocolate (Ryuzo Kitajima) 48.00, Marquis de Plescop (Toshiyuki Tanaka) 44.40; Bronze - Hong Kong 153.80: Zibor (Thomas Heffernan Ho) 55.70, The Navigator (Nicole Fardel) 54.60, Baxo (Yuan Yan Annie Ho) 43.50.

Eventing Individual Competition: Gold - FRH Fantasia (Sangwuk Song) KOR 37.90; Silver - Temujin (Alex Hua Tian) CHN 41.10; Bronze - Thomas O'Mally (Sire Bang) KOR 41.30.

Footing Facts

Coated Footings and Temperature

Last month we talked about coated footings and highlighted the problems associated with wax-coated surfaces and temperature. This month we want to continue with the theme of coated footings and temperature, and explore just how surprisingly wide a temperature range a surface has to endure.

We naturally think that the temperature an equestrian surface reaches over a typical year for a given climate matches the published temperature given for the 'weather' in our region. However this would be incorrect and would grossly underestimate the temperature range the surface will be subjected to. This is especially true at the high temperatures encountered during summer (in the Northern hemisphere). This is because official temperatures given by the weather media are *air* temperatures, measured out of direct sunlight, usually in a special cabinet. Because of the effect of direct sunlight, the temperature of a surface will be higher than the air temperature, sometimes dramatically higher. But it is more complicated than this because the surface temperature will also depend on the colour of that surface, and also to a certain extent its surface

roughness, but we won't consider that here.

Most people know that darker surfaces get hotter when exposed to sunlight, but perhaps not many know just how much hotter. For instance the surface temperature of the bodywork of a black car can be as much as 30°C hotter than a white car. So imagine your equestrian surface on a sunny day in a temperate climate, with the outside temperature at 25°C, the footing temperature could be as high as 55°C. The highest natural surface temperature recorded was in the Lut Desert in Iran in 2005, registering 70.6°C! Now think about your arena in winter, with sub-zero temperatures. During prolonged cold weather the surface temperature is likely to be at the actual sub-zero air temperature.



So your footing has to withstand a huge range of temperatures. There is very little independent research on the effect of temperature on synthetic equestrian surfaces. One study by Peterson et al showed that the temperature of the footing at Del Mar Racetrack in California, 1" below the surface over a period of 6 days in August varied from 21°C to 52°C, and the footing properties were shown to vary significantly, and be responsible for different track times at different times of the day.

But why is all this important. Well if you read last month's Footing Facts you'll have discovered that the wax used to coat wax-based footings can melt when the temperature gets higher, and solidify when the temperature drops, leading to a dramatic change in properties - the greater the change in temperature, the greater the change in properties. However the polymer in Attwood's polymer coated Pinnacle footing does not melt so its properties change very little with temperature.

It is therefore important to consider the magnitude of temperature change the actual footing is likely to undergo, rather than just the weather-man's air temperature.

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