

"I love Regupol® tracks. They are fast, they feel the same everywhere on the track and they have no joints." World champion Usain Bolt shown on his Regupol® AG track in Jamaica.









Berlin's "Blue Wonder": Regupol* at Berlin's Olympic Stadium (above).
Regupol* AG at the National Stadium in Kingston, Jamaica (left),
Regupol* AG at the Bernardo Werner Stadium in Blumenau, Brazil (right).

Experience, Diversity, Specialisation

Top sporting achievements need top equipment. **Regupol tartan**® tracks maintain a top position among synthetic floors which are of prime importance for many of the world's athletes. They are manufactured in accordance with IAAF quality criteria and in line with DIN V 18035-6 directives for synthetic surfaces in outdoor sports grounds. **Regupol®** athletics tracks are suitable for both international professional sports as well as for school and popular sports. Their material composition was developed in accordance with physical sports requirements and incorporates a balance between speed, non-slip qualities and shock absorption exactly rated to the physical constitution of athletes.





Certified to international guidelines issued by the IAAF (International Association of Athletics Federations).

Certified and quality monitored by DIN CERTCO. Tested to EN 14877.

Regupol tartan® tracks can be modified in many respects, depending on the requirements. Surface properties, elasticity, colour schemes, thickness and density can be varied as required. Each **Regupol®** athletics track is unique as they are each custom-made. During the planning periods, our BSW consultants clarify the specific properties required for the particular athletics track.





Member of IAKS and SAPCA.

The specific project modifications are developed in accordance with the following criteria:

Performance Level

Professional competition, amateur competition, school and popular sports

Focal Use

Competition or training

Specific Disciplines

Sprint, long-distance running, long jump, high jump, etc.

Design Variations

Base colour, coloured sections, surface structure

National/Regional Aspects, Special Customer Requirements Varying surface structures, different structural heights, variable levels of elasticity, sub-base properties Customised production of elastic components in sports flooring systems:

Regupol®, Recoflex® and Variofoam® are used in sports flooring systems by renowned manufacturers all over the world.

See page 253 for more details.

Customer Solutions Center

Contact: Thomas Beitzel, Phone: +49 2751 803-130 • t.beitzel@berleburger.de; Peter Breuer, Phone: +49 2751 803-131 • p.breuer@berleburger.de • Downloads at



Regupol® AG









Regupol® AG installed in Erfurt and in Göttingen, both Germany (above and below), and in Urumqi, China (centre).

Contact: Thomas Beitzel, Phone: +49 2751 803-130 • t.beitzel@berleburger.de; Peter Breuer, Phone: +49 2751 803-131 • p.breuer@berleburger.de • Downloads at

Regupol® AG

Regupol® AG is one of BSW's most frequently installed track surfaces and meets the highest professional demands. Regupol® AG can be found in sports stadiums all over the world. The base mat of Regupol® AG consists of prefabricated rolls and is permanently bonded to the sub-base in situ with a special PUR adhesive. The EPDM granules of the wear layer are embedded into the liquid polyurethane layer to achieve a seamless sports surface. As a main advantage it must be pointed out that the prefabricated elastic layer is produced in accordance with strict quality specifications resulting in an extremely homogeneous surface with exactly the same thickness and the same physical properties all over. In addition, installation is a quick and low-cost procedure.



Material Composition

The wear layer is composed of mixed-size, spike-resistant EPDM granules embedded into liquid polyurethane. The elastic layer consists of prefabricated **Regupol**® rolls made from PUR-bonded rubber granules.

Sub-Base

Asphalt or concrete

Thickness

Standard offer: wear layer 3 mm, elastic layer 10 mm; other thicknesses upon request

Weather Resistance

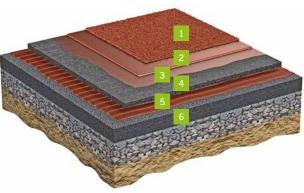
UV-resistant, durable even in extreme heat, cold and moisture

Colours

Red, Beige, Sky Blue, Berlin Blue, Dove Blue, Slate Grey, Light Grey, May Green; other colours on request

Performance Level

International professional competition, amateur competition, school and popular sports



1 Wear layer made of EPDM granules • 2 Cast layer made of PUR • 3 Sealed pores of the **Regupol**® elastic layer • 4 **Regupol**® elastic layer, prefabricated • 5 PUR adhesive • 6 Asphalt layer on gravel bed

Regupol® AG IS

Regupol® AG IS is a variation of our **Regupol®** AG consisting of the same typical wear layer with EPDM granules embedded into liquid polyurethane. In contrast to **Regupol®** AG the elastic layer is cast in situ.

Regupol® fastrack AG

Regupol® fastrack AG consists of the same components as **Regupol®** AG but is installed on the old existing track without this having to be removed first, thus saving both time and money.



Regupol® AG for Portable Indoor Tracks

Regupol® AG for Portable Indoor Tracks for indoor athletic events is a complete floor system for indoor use. It consists of a complete, load-bearing track construction with raised bends, which is positioned on top of the existing hall floor. The upper layer is the tried-and-tested Regupol® AG tartan track. The load-bearing floor construction was designed by the BSW cooperation partner Kanstet OÜ in Estonia.I

Regupol® AG for Portable Indoor Tracks has the dimensions of a 200-metre running track. The floor system is suitable for competitions and meets the IAAF requirements for international competitions.



The system is extremely hard-wearing, providing athletes with the highest level of comfort. Despite being a complex loadbearing construction, the system can be installed according to a fixed time schedule.

The construction can be permanently installed in a hall or be used as a temporary installation, easily and rapidly disassembled after the event. The disassembled construction can later be reinstalled in the same hall or elsewhere.

This floor system can be used to equip halls otherwise not suitable for athletic events with a perfect indoor athletics surface within a relatively short space of time.

- All facilities for jumping events, including sand pits, form an integral part of the floor construction.
- The construction also includes the sports surface enclosed by the running track. This, too, is supported by a removable load-bearing construction and equipped with the Regupol® AG athletic track surface.
- The floor construction is positioned on adjustable support pillars to balance out any unevenness in the floor of the hall.
- The floor on which the Regupol® tartan track is positioned consists of solid composite wood panels and forms a stable, strong and even surface.
- The Regupol® AG upper layer can be very rapidly installed, as the major components are made of pre-manufactured materials. This greatly facilitates the installation of the raised bends in particular.



The 2013 European Athletics Indoor Championship in Göteborg, held on Regupol® AG

Regupol® AGM Long-distance Track Surfacing

The track surface **Regupol® AGM** was specially developed as a training surface for long- and middle-distance runners. This surface has a clearly softer elasticity than other conventional synthetic track surfaces. The relatively high force absorption takes the strain off the musculoskeletal system of the athlete, preventing training-related injuries, pain and wear and tear. The elasticity of the floor also counteracts symptoms of fatigue that occur during long hours of training. The wearing layer of the surface is identical to the well-known **Regupol® AG** athletic track surface.



Material

Wearing layer made of polyurethane with interspersed EPDM granulate, spike-resistant. Base layer consisting of extra-elastic, pre-manufactured Regupol courses made from PUR-bonded rubber granulate.

Type of installation

Surface type D according to DIN V 18035-6

Substructure

Asphalt, concrete and others on request

Thickness

Standard: 3 mm wearing layer, 10 mm base layer, other thicknesses available.

Weather conditions

UV-resistant, long service life, even under extremely hot, cold or wet conditions.

Water penetrability

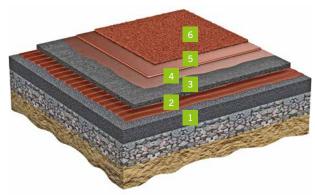
No

Colours

Red, green, beige and various shades of blue; other colours on request

Performance Level

Training surface for professional middle- and long-distance runners. Amateur sports, school sports and public sports facilities.



1 Asphalt layer on sub-ballast • 2 Application of adhesive • 3 Coasting of the prefabricated base mat • 4 Closing of the pores of the base mat • 5 Application of liquid PUR coating • 6 Wearing Surface consisting of FPDM granules

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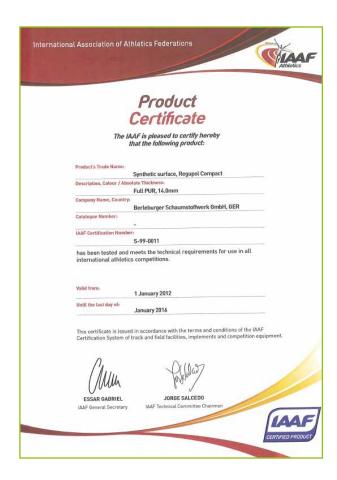


Regupol® compact









Regupol® compact in Busan, South Korea; Kuala Lumpur; and Johannesburg.

Contact: Thomas Beitzel, Phone: +49 2751 803-130 • t.beitzel@berleburger.de; Peter Breuer, Phone: +49 2751 803-131 • p.breuer@berleburger.de • Downloads at

Regupol® compact

Regupol® compact stands out with its immense resilience under intensive use for both competitions as well as training sessions. Regupol® compact consists of polyurethane that is cast in situ with specially rated rubber granules to optimise shock absorption. The wear layer is identical to that of Regupol® AG and just as spike-resistant. Regupol® compact is installed in sports stadiums pursuant to the requirements of the IAAF.



Material Composition

The wear layer is composed of mixed-size, spike-resistant EPDM granules embedded into liquid polyurethane. The base layer consists of in situ cast PUR layers with rubber and/or EPDM granules.

Sub-Base

Asphalt

Thickness

Standard offer: wear layer 3 mm, base layer in 10 mm; other thicknesses upon request

Weather Resistance

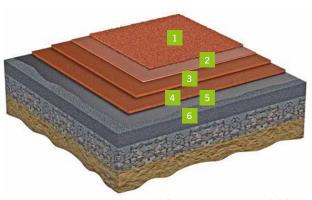
UV-resistant, durable even in extreme heat, cold and moisture

Colours

Red, Beige, Sky Blue, Berlin Blue, Dove Blue, Slate Grey, Light Grey, May Green; other colours on request

Performance Level

International professional competition, amateur competition, school and popular sports



1 Wear layer made of EPDM granules • 2 Cast layer made of PUR • 3 $2^{\rm nd}$ PUR cast layer with rubber granules • 4 $1^{\rm st}$ PUR cast layer with rubber granules • 5 Sealed asphalt layer • 6 Asphalt layer on gravel bed



Athletics Tracks

Regupol® PD









Regupol® PD in Brazil and Germany.

Contact: Thomas Beitzel, Phone: +49 2751 803-130 • t.beitzel@berleburger.de; Peter Breuer, Phone: +49 2751 803-131 • p.breuer@berleburger.de • Downloads at

Regupol® PD

Regupol® PD possesses the same special spray coating as **Regupol®** PD IS. The spray coating is applied on top of the prefabricated homogenous **Regupol®** elastic layer and creates extremely homogeneous shock absorption. **Regupol®** PD is also the waterproof alternative to **Regupol®** PD IS and is suitable for both ambitious amateur competitions as well as for school and popular sports.



Material Composition

The wear layer consists of mixed-size, spike-resistant EPDM granules embedded into liquid polyurethane. The base layer consists of in situ cast PUR layers with rubber granules.

Sub-Base

Asphalt or concrete

Thickness

Standard offer: 13 mm; other thicknesses upon request

Weather Resistance

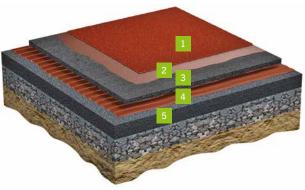
UV-resistant, durable even in extreme heat, cold and moisture

Colours

Red, Beige, Sky Blue, Berlin Blue, Dove Blue, Slate Grey, Light Grey, May Green; other colours on request

Performance Level

School and popular sports, and ambitious amateur competitions



1 PUR-EPDM wear layer • 2 Sealed pores of the **Regupol**® elastic layer • 3 **Regupol**® elastic layer • 4 Adhesive • 5 Asphalt or concrete layer on gravel

Regupol® PD IS

Regupol® PD IS is installed in situ and completed with a special PUR coating. In contrast to conventional wear layers (mostly based on EPDM granules), the PUR coating accelerates the installation process, helps to cut costs and calls for less workloads. Regupol® PD IS is popular for facilities focused on club and school sports. However, its elasticity and surefootedness also satisfy the demands made by experienced runners so that Regupol® PD IS also becomes a popular track for nationwide competitions.



Athletics Tracks

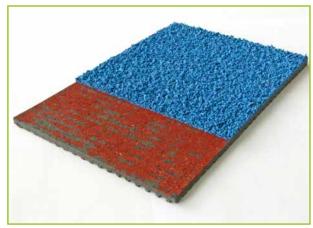
Regupol® AG RC

Numerous older synthetic tracks are in the need of replacement. The **Regupol® AG RC** retopping product entails installing a new layer on the existing synthetic surface without removing the old elastic layer. At first it will be necessary to sand down and clean the wear layer of the existing surface. Afterwards the special PUR primer must be applied with subsequent installation of a self-levelling, seamless PUR coating into which the coloured EPDM granules are then embedded.

Finally, the tartan track will looks like new again, at a price well below the cost of purchasing a complete track.

Preliminary tests show whether the existing surface is suitable for retopping. Among others, tensile strength and shock absorption have to meet the requirements. **Regupol® AG RC** can be easily installed on the worn synthetic tracks of various manufacturers.

Regupol® AG RC offers the possibility to dispense with the lengthy, expensive construction of a new athletics track.



The Regupol® AG RC wear layer installed on an older, existing elastic layer of another manufacturer.



Regupol® AG RC was installed at Hanover's intensive training centre where both advanced training and competitions take place.

Material Composition

The wear layer is composed of mixed-size, spike-resistant EPDM granules embedded into liquid polyurethane. The already existing track forms the elastic layer.

Sub-Base

Asphalt or concrete

Thickness

Subject to existing elastic layer

Weather Resistance

UV-resistant wear layer; durable even in extreme heat, cold and moisture

Colours

Red, Beige, Sky Blue, Berlin Blue, Dove Blue, Slate Grey, Light Grey, May Green, other colours on request

Performance Level

Amateur competitions, school and popular sports, regional competitions

Regupol® Rolldown Runway

Regupol® Rolldown Runway is a slip-resistant and resilient surface for individual runways and sprint lanes. It is laid onto existing surfaces or runways consisting of cider or clay, as cost-effective alternative to conventional track surfacing installations. It offers the same resilience, better uniformity, and nearly identical physical properties. Regupol® Rolldown Runway is rolled out on site and accurately put in place manually. Due to its weight the rolls lay flat. There is also the option of permanently bonding Regupol® Rolldown Runway onto an engineered sub base such as asphalt or concrete.



Regupol® Rolldown Runway offers an ideal surface for running even if laid on worn sub-bases.

Material Composition

Fully prefabricated **Regupol®** roll material made from PUR bonded crumb rubber and rubber granules.

Installation

Prefabricated rolls must be rolled out. The material is subject to a co-efficient of shrinkage and/or expansion when loose laid so **Regupol® Rolldown Runway** is typically not laid in roll on roll but individually to create a single runway equal to the width of one roll. **Regupol® Rolldown Runway** can also be fully bonded to an engineered sub base such as asphalt or concrete.

Sub-Base

Existing track and other existing synthetic sports surfaces, cinder tracks, asphalt or concrete.

Dimensions

Roll-width: 1,250 mm, Roll-lengths are variable between 20 and 50 linear meters.

Standard thickness: 10 mm and 12 mm, other thicknesses upon special request.

Properties

UV-resistant, durable under all weather conditions, waterpermeable when loose laid, spike resistant at 12 mm thickness.

Colours

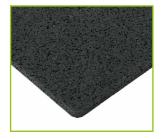
Black as single-layer roll; Red, green, blue as double-layer roll

Performance Level

Training at school and club level, institutional competition.



Regupol® Rolldown Runway can easily be rolled out and taken up as required. The rolls can permanently be glued onto a bound sub-base.



Regupol® Rolldown Runway, singlelayer roll



Regupol® Rolldown Runway,double-laver roll



Athletics Tracks

Lifelong service

Support and Services

Construction procedure of an athletics surface entails extensive, protracted planning and organisational activities. Athletics facilities are highly specialised structures where not every planner and architect is necessarily familiar with the requisite tasks involved in building construction. BSW bridges the resulting information gap by providing investors, planners and operators of sports facilities with all necessary information and numerous additional services, from preliminary planning via building construction of the sports surface through to its subsequent maintenance.

Planning Aids

Our website www.berleburger.com provides all our technical details, tender texts and references.

Complete Installation

BSW produces the complete athletics track, starting with the sub-base, via the structural layer through to applying the lines after completion.

All Accessories

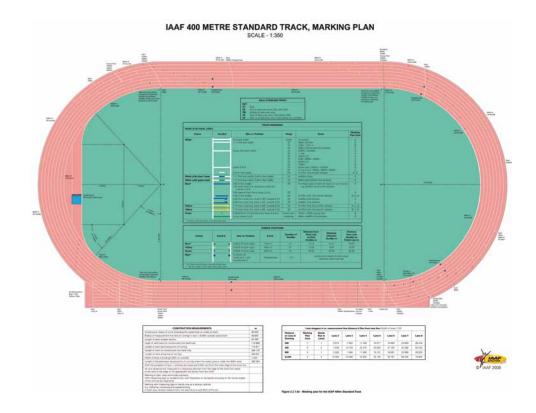
Track edge markings, take-off boards, pole-vault boxes, hurdles, starting blocks, bars and landing mats, etc. are of course also included in our range, as well as including professional installation.

Retopping and Refurbishment

BSW refurbishes your athletics track, regardless of whether it need simple retopping, repairs of individual sections or complete new installation.

Flooring Designer

With the BSW flooring designer, you can insert all the colors available in ready-standing floor plan drawings of athletics facilities and so visualize your design ideas.



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Regupol® Elastic Layer in Rolls











First, the **Regupol®** elastic layer is glued on the asphalt (photos 1 and 2). Afterwards the pores of the elastic layer are sealed with polyurethane and the liquid polyurethane is applied as wear layer (photo 3). Finally, EPDM granules are embedded into the liquid polyurethane layer to form the actual surface (photo 4). When the surface has been completed, the linings can be applied (photo 5).



Regupol® Elastic Layer in Rolls

As well as offering the various surface types pursuant to DIN V 18035-6, **Regupol** tartan® athletics tracks stand out with their special elastic layer. **Regupol®** elastic layers are only produced in our own factory. They are supplied in rolls. **Regupol®** elastic layers set up the base for our **Regupol® AG**, **AGM** for **long-distance running**, **AG** for **portable indoor tracks** and **Regupol® PD** tracks. BSW thus produces tracks with above average homogeneous shock absorption values, material thicknesses and densities. The **Regupol® AG** and **PD** tracks are IAAF-certified, fulfilling the strictest sporting requirements. By contrast, the **Regupol® compact** track which is also IAAF-certified is produced completely in situ.

The **Regupol**® elastic layers are BSW's speciality. This absolutely top-quality elastic layer can only be found in tracks made by the BSW Group. Prefabricated elastic rolls are produced in accordance to strict quality specifications and are supplied unrolled and fixed in situ. The special material composition ensures widespread uniform shock absorption. **Regupol**® elastic rolls for athletics tracks are an absolutely top-quality component whose homogeneity is far superior to conventional in situ installations.



Advantages Homogeneous shock absorption tested in

the factory, homogeneous layer thickness,

homogeneous material density

Material Elastic rolls made of polyurethane-bonded

pure-grade rubber grains or SBR rubber

Installation The Regupol® rolls are laid, adjusted and

fixed; after laying the rolls, the seamless

wear layer is applied

Tracks Regupol® AG, AGM long distance track

surfacing, AG for portable indoor tracks,

PD, fastrack

Customised production of elastic components in sports flooring systems:

Regupol®, Recoflex® and Variofoam® are used in sports flooring systems by renowned manufacturers all over the world.

See page 253 for more details.

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Colours – Application and Decoration

Regupol tartan® tracks are supplied as standard in eight different colours. Please note that our full range of 25 colours is only available for larger orders. To find out more about our BSW Design Center, turn to page 235.







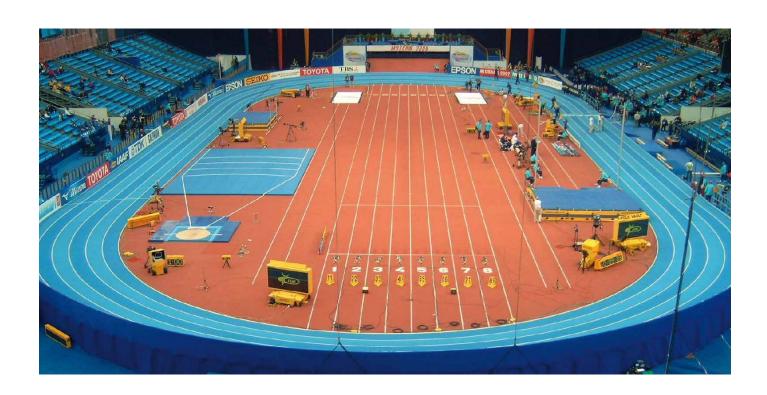
The BSW Design Center creates individual design variations to customers' specifications.

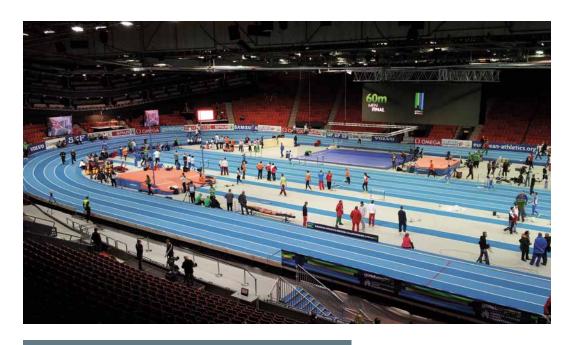
See page 235.

BSW Design Center









Ilndoor tracks are gaining more and more importance, especially in colder regions. Regupol® AG in the Olympic sports complex in Moscow, venue of the IAAF World Indoor Championships in Athletics 2006 (above) and in the Scandinavium in Gothenburg, venue of the IAAF World Indoor Championships in Athletics 2013 (below) and at the intensive training centre in Hanover (previous page centre).

Usain Bolt on Regupol tartan®

Usain Bolt, the world-famous sprinter, advertises for **Regupol®** athletics tracks. Since his fantastic world records for 100 and 200 metres on the **Regupol tartan®** track at Berlin's Olympic Stadium, he believes devoutly in **Regupol®**:

"I love **Regupol tartan**® tracks. They are fast, they feel the same everywhere on the track and they have no joints."

And so immediately after he achieved his world records, his coach and manager got together with BSW, developing the idea for a training track for Usain Bolt and the other Jamaican runners. No sooner said than done.

On 30 April 2010, the **Regupol tartan®** track was officially inaugurated on the premises of the University of the West Indies in Kingston. At Usain Bolt's request, the track was produced in the same blue as in Berlin.

Henceforth the Jamaican runners will profit from ideal training conditions.

In October 2014, the contract with Bolt was extended by two years until 2016, and he is still as enthusiastic about his blue running track as ever. Bolt describes the **Regupol® AG** running track as "spine-tingling". For over four years now, daily training has taken place on the tartan track, and none of the top athletes have yet injured themselves on it. Also, extreme external conditions cannot damage the running track. Repairs and improvements, that are required due to the high load, are carried out by BSW fitters.

"My **Regupol**" track at UWI has been sizzling. The improved performances by each athlete shows the work being done on the track..."

"The track recently showed some wear in the start and other high stress areas. Well, we really chew it up with our spike shoes. A **Regupol®** - technician fixed it within a couple of days. The repaired areas do perform like the rest of the track. This product is great."

"I am doing my daily training on the Regupol\$ track for over 4 years now and it feels like it's brand new."











UWI Track, Jamaica

The University of the West Indies (UWI) training facility, used by Usain Bolt and other Jamaican runners, received a new **Regupol tartan**® track in April 2010, with the same surface as the **Regupol**® track at Berlin's Olympic Stadium.

BSW received all conceivable assistance from the University. Even so, Jamaica is a poor country, and certain logistics and organisational difficulties had to be overcome. But in the end, the track was installed perfectly – just in time before the rainy season began.

Two years later, at the Olympic Games in London, it was revealed that the new **Regupol tartan**® track contributes to the fine performance of Jamaica's athletes.

After Jamaica dominates the sprint disciplines at the London 2012 Olympics again, with Gold and Silver for Usain Bolt and Yohan Blake in the 100 m, Gold, Silver and Bronze for Bolt, Blake and Warren Weir in the 200 m and the Gold Medal with a new World Record for the Jamaican 4 x 100 m relay team (Nesta Carter, Michael Frater, Yohan Blake and Usain Bolt), **legendary Coach Glen Mills** made the following statement on Sunday, August 12, 2012, the last day of the Olympic Games:

"The Regupol® track at our training- and performance center at UWI Mona has definitely contributed to the fine performance of our athletes in London.

Bolt, Blake and all members of my "Racers Track Club" do enjoy their daily training on the Regupol® AG-track. The surface performes great and is most consistant! I am getting zero complaints from any of our athletes and what is even more important, we have not had any injuries ever since we do our training on the Regupol® track! Training conditions could not be better!

I can highly recommend the use of Regupol® surfaces for training and competition to any coach in the world!"

Export director Peter Breuer is talking to Usain Bolt about the new Regupol tartan® track (above). The elastic layer of Regupol® AG was prefabricated by BSW in Germany, and later installed in situ in Jamaica (centre), Coach Glen Mills (below).







More at berleburger.















Regupol® AG IS in Paderborn (above), Regupol® AG IS training facility in Rabenberg Breitenbrunn (centre) and in Göttingen (below), Germany.

Regupol® kombi





Uniform high-quality worldwide: **Regupol® kombi** installed on game courts in Russia (above) and Germany (below).



Your contact to BSW GmbH

Thomas Beitzel

Fax +49 (0)2751 803 139 t.beitzel@berleburger.de

Phone: +49 (0)2751 803-130

Peter Breuer

Fax +49 (0)2751 803 139 p.breuer@berleburger.de

Phone: +49 (0)2751 803-131

BSW

Berleburger Schaumstoffwerk GmbH

Am Hilgenacker 24 57319 Bad Berleburg Germany

info@berleburger.de www.berleburger.com







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