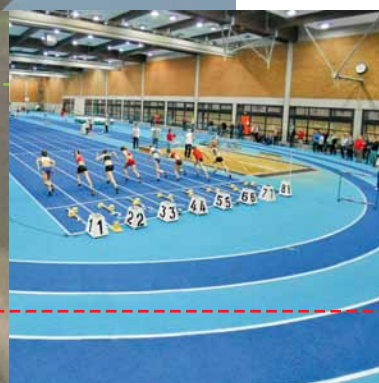
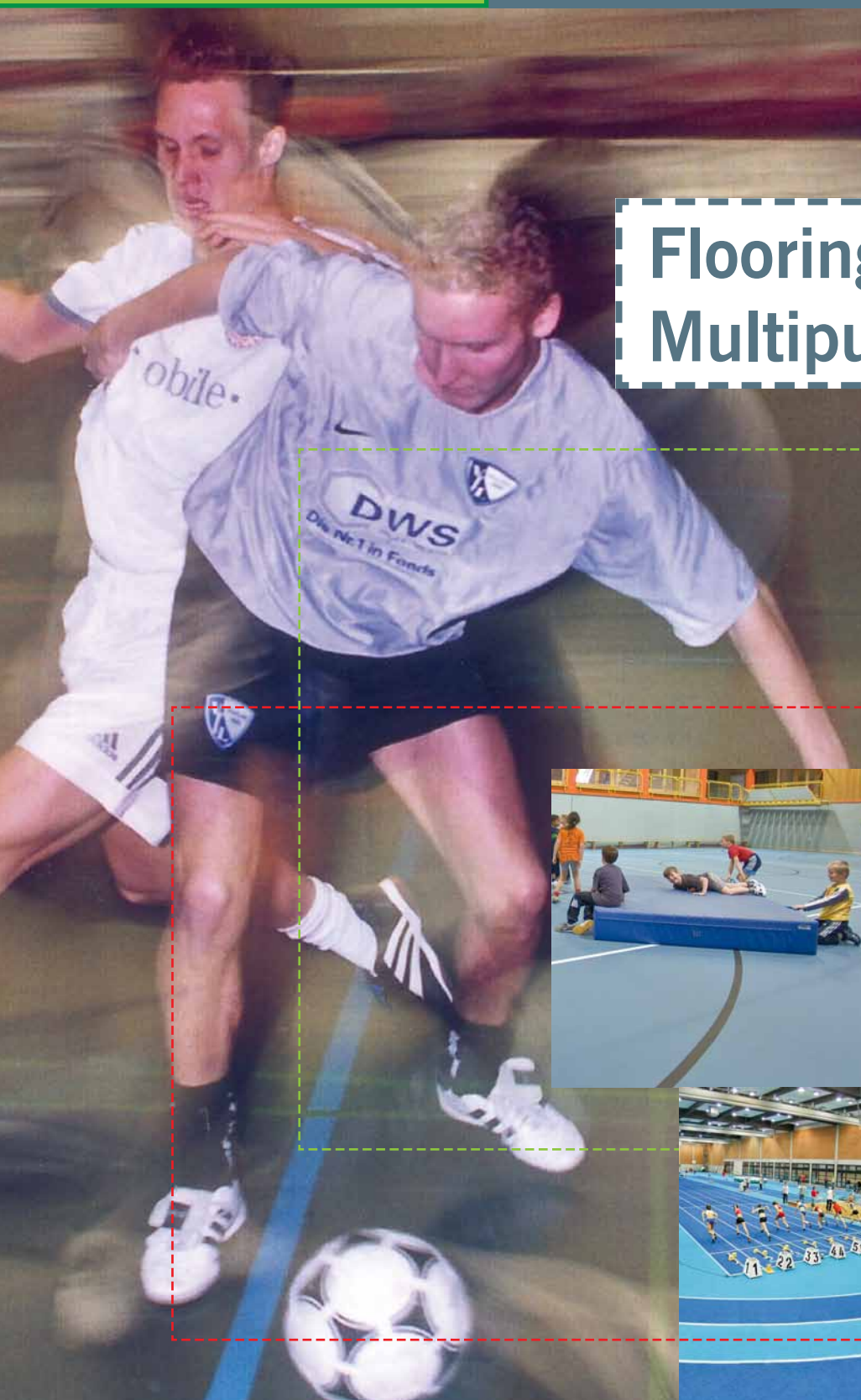


regugym®

Flooring for Sports & Multipurpose Halls

Durable, low maintenance, sound absorbing.



regugym® – Durable, Low Maintenance, Kind on Joints

Flooring in sports and multipurpose halls are expected to meet a variety of performance requirements. Indoor flooring not only offer optimised functional sporting properties but also durability as well as resilience. Last but not least, indoor flooring can bear seating and short-term superstructures without any damages over the long term. **regugym®** flooring have proven their performance in sports, training, culture and leisure events for decades. They are suited for international championships and cultural events as well as for school sports and training. **regugym®** flooring offer unconfined functionality also under heavy-duty use in high-frequency areas such as in gastronomy and the workplace.



Certified by the International Handball Federation IHF



Tested Properties

The functional sporting properties comply with DIN V 18032-2, parts 1 and 2 together with EN 14904 (insofar as this has been harmonised). **regugym®** flooring systems offer point elasticity with a large deformation depression.

Long-Life Service

regugym® floors remain functional for 30 years and more, even when used for demanding sporting competition. Scarcely any other sports flooring is capable of such performance, which is an exemplary illustration of sustainable construction, also in terms of the minimal cleaning workload.

Multifunctional

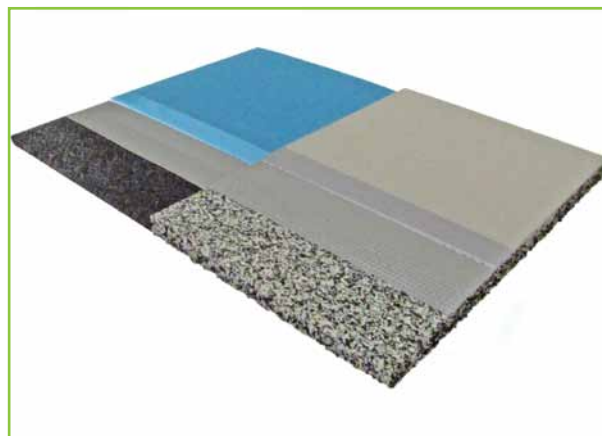
Many halls are used for sports as well as cultural and commercial events. **regugym®** floorings are perfectly suited for variances resulting from stress and strains. **regugym®** is not sensitive to water, extensively stain-proof, resistant to point loads and rolling loads, acts as insulation from impact sound, is suitable for underfloor heating and is easy to clean.



The regugym Range®

Complete Flooring Systems

The **regugym®** range consists of four complete flooring systems. They cover all sports-related requirements for indoor sport and offer multifunctional properties. Due to their special features **regugym®** flooring distinguish from comparable flooring systems. BSW attaches particular importance here to sustainability, environmental protection together with health and safety, as well as a long service life.



Wear Layers

Together with the multifunctional wear layers of **regugym® vivo** and **eco**, the surface of **regugym® SR** is particularly hard-wearing. By contrast, the special wear layer of **Regupol® AG** has been developed particularly for athletics, as the athletes need the same training and competition conditions indoors as well as outdoors.



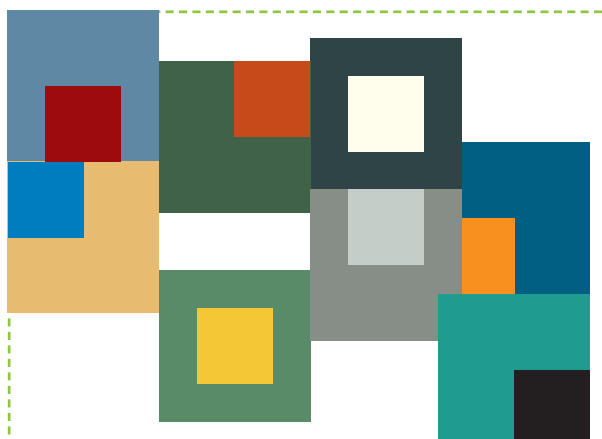
The BSW Design Center creates individual design variations to customers' specifications.

More information can be found on page 235.

**BSW
Design
Center**

Colour Schemes

The wear layers are made from polyurethane and offer a range of colour finishes. Altogether 17 base colours and 15 line colours are available in intensity and saturation levels that fulfil the demands of indoor sports. In addition, BSW has chosen 30 base colours for primarily decorative purposes. In this way, it is possible to distinguish various different floor sections. Furthermore, BSW also develops special colours at the request of the customer.



regugym® eco

regugym® eco stands out with its low force reduction, making it simply ideal for all fast sports, cycling and multipurpose use. In addition, this is the floor that currently has the highest standards in terms of sustainability and environmental protection together with health and safety.

regugym® eco and regugym® vivo are unique compared to other sports floors. Their elastic layer, which accounts for most of the weight and mass of the sports flooring system, consists of resource conserving materials whose durability and composition constitute a special way of promoting sustainable construction.

The same criteria apply to the PUR wear layer. The chemical composition of the material poses no health or environmental risk, nor does it deplete natural resources.

regugym® eco is our sports floor with the lowest force reduction. It has been developed for fast ball games, high running speeds and high ball rebounds.

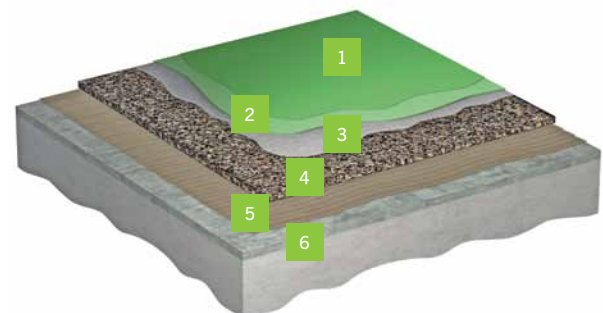
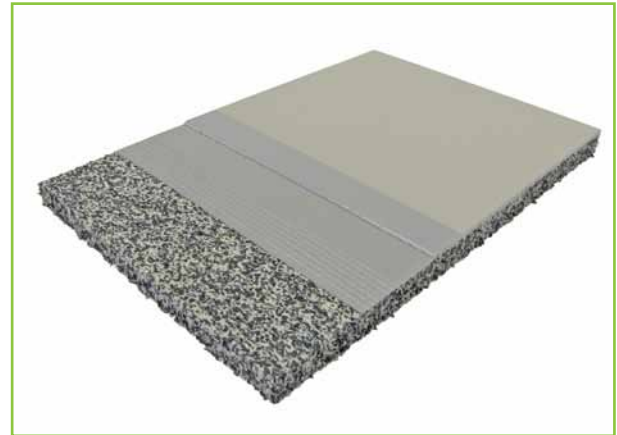
What is more, its robust wear layer means that cultural and commercial events can also be held in buildings equipped with regugym® vivo. There is no need for the additional protective layer often necessary on the frequently sensitive surfaces of many sports flooring systems.

The economical material input due to the relatively thin elastic layer of only 4–6 mm also makes regugym® eco a genuine low-cost alternative.

Detailed information regarding the chemical analysis and physical sporting specifications can be found in the product details at our website www.berleburger.com.

regugym® eco inline

regugym® eco inline has been specially developed for rollerblading. The wear layer consists of extremely hard polyurethane and facilitates high-speed skating. However, in the event of a fall, the elastic layer also offers a certain cushioning effect. Furthermore, regugym® eco inline is the ideal flooring for commercial and cultural use.



1 PUR coloured layer • 2 PUR wear layer • 3 Pores sealed with PUR •
4 Regupol® elastic layer • 5 Adhesive layer • 6 Screed
The product photo featured here also shows an optional stabilising fabric layer.

BSW gives a 15-year guarantee on the functionality of regugym® eco elastic layers.

Experience indicates that the floor lasts even longer.

**15-
year
guarantee**

Areas of Suitability

Ball Games

School sports, club sports: all ball games such as basketball, indoor football, handball, volleyball, etc.
Competition sports: basketball, indoor football, handball, volleyball, indoor hockey

Racquet Sports

School sports, club sports: all racquet sports such as tennis, badminton, table tennis, etc.
Competition sports: tennis, badminton, table tennis

Capture Games

School sports: e.g. dodgeball

Cycling

School sports, club sports, competition sports: artistic cycling, cycle ball. **regugym® eco inline** is suitable for rollerblading.

Gymnastics

School sports, club sports: floor exercises, wheel gymnastics

Fitness

Weight training, cardio, spinning, all kinds of gymnastics

Cultural and Commercial Events

Rolling loads up to 1,000 N. Heavy rolling loads should move slowly. Vehicles should move only at walking pace, avoiding any abrupt steering movements. Do not drag sharp heavy objects across the floor.

regugym® eco can withstand glowing cigarettes and is resistant to stains caused by most household fluids. Beverages that leave stains, e.g. red wine, should be wiped off before they dry into the surface.

The New Elastic Layer

The major innovation of the **regugym® eco** flooring system is its elastic layer consisting of a special formula made up of BSW's **Regupol®** material. This is a particularly low-emission version of **Regupol®** that remains well below all current EU limit values.

Furthermore, BSW also gives other sports flooring manufacturers the opportunity to profit from the elastic layer. This version of **Regupol®** can also be used as the elastic component for the flooring systems of other manufacturers – as full-surface elastic layer in point and mixed elastic systems or as elastic pad in surface elastic vibration flooring.

Regupol®



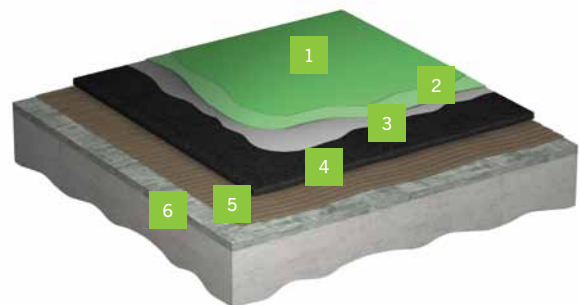
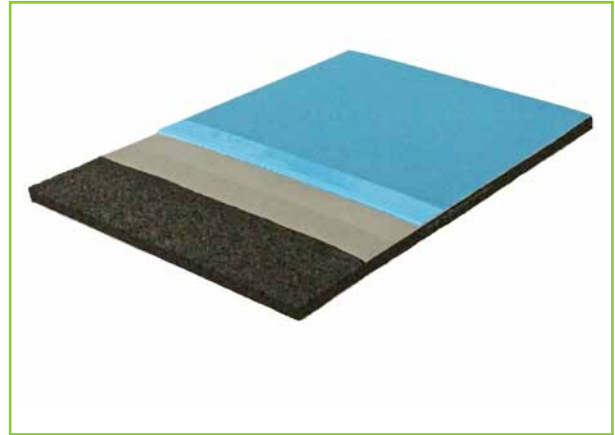
regugym® classic

regugym® classic is the proven sports flooring that has been used for decades in numerous gymnasiums all over the world for nearly all indoor sports. **regugym® classic** stands out with its wide range of use and its long service life.

The elastic layer consists of BSW's brand material **Regupol®**, which is an important component in numerous sports flooring systems and sports surfaces in both indoor and outdoor facilities. **Regupol®** is indestructible and offers ideal properties for use in sports flooring, as its elasticity can be adjusted perfectly to the demands of various different sports.

For **regugym® classic**, BSW has developed **Regupol®** with an 8-mm-thick elastic layer based on the requirements of EN 14904, placing this product in the medium range of the **regugym®** sports floors. And so **regugym® classic** is a flooring system that is suitable for nearly all sports and performance levels.

Detailed information regarding the chemical analysis and physical sporting specifications can be found in the product details at our website www.berleburger.com.



1 PUR coloured layer • 2 PUR wear layer • 3 Pores sealed with PUR • 4 **Regupol®** elastic layer • 5 Adhesive layer • 6 Screed



BSW gives a 15-year guarantee on the functionality of **regugym® classic** elastic layers.

Experience indicates that the floor lasts even longer.

**15-year
guarantee**

Areas of Suitability

Ball Games

School sports, club sports: all ball games such as basketball, indoor football, handball, volleyball, etc.
Competition sports: basketball, indoor football, handball, volleyball, indoor hockey

Racquet Sports

School sports, club sports: all racquet sports such as tennis, badminton, table tennis, etc.
Competition sports: tennis, badminton, table tennis

Capture Games

School sports: e.g. dodgeball

Cycling

School sports, club sports: artistic cycling, cycle ball

Gymnastics

School sports, club sports: floor exercises, apparatus gymnastics, gyro wheels
Competition sports: floor exercises

Fitness

Weight training, cardio, spinning, all kinds of gymnastics

Cultural and Commercial Events

Rolling loads up to 1,000 N. Heavy rolling loads should move slowly. Vehicles should move only at walking pace, avoiding any abrupt steering movements. Do not drag sharp heavy objects across the floor.

regugym® classic can withstand glowing cigarettes and is resistant to stains caused by most household fluids. Beverages that leave stains, e.g. red wine, should be wiped off before they dry into the surface.

The Proven Elastic Layer

Regupol® has been used for decades as the elastic component in sports flooring systems. Probably no other material is used as frequently in sports floors – in gymnasiums, as floor covering in fitness centres or for competition, performance and training surfaces for outdoor sports facilities. Regupol® is made of rubber and polyurethane.

Furthermore, BSW also gives other sports flooring manufacturers the opportunity to profit from the elastic layer. This version of Regupol® can also be used as the elastic component for the flooring systems of other manufacturers – as full-surface elastic layer in point and mixed elastic systems or as elastic pad in surface elastic vibration flooring.



Regupol®

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

regugym® vivo

regugym® vivo combines outstanding sport functionality with what are probably the highest current standards in terms of sustainability and environmental protection together with health and safety.

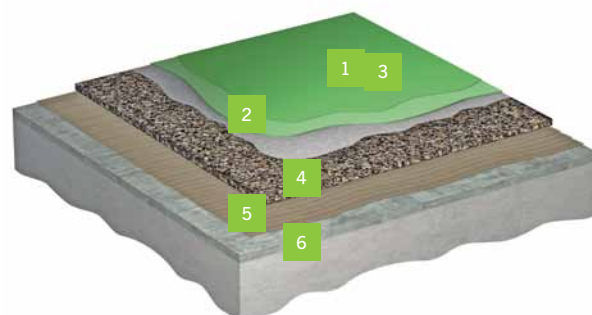
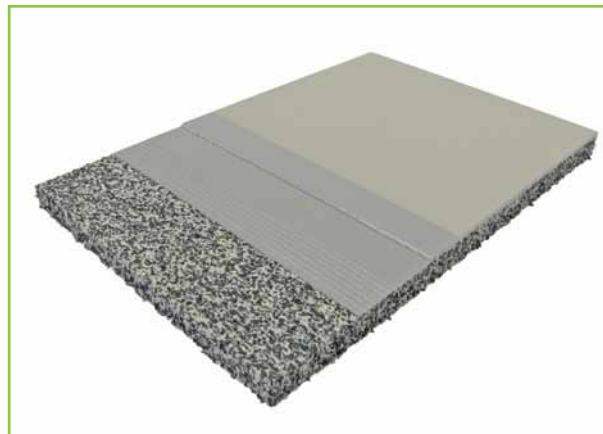
regugym® vivo is unique compared to other point elastic sports flooring systems. The elastic layer, which accounts for most of the weight and mass of the sports flooring system, consists of non-resource-depleting materials whose durability and composition constitute a special way of promoting sustainable construction.

The same criteria apply to the PUR wear layer. The chemical composition of the material poses no health or environmental risk, nor does it deplete natural resources.

The functional sporting properties comply with DIN V 18032-2, parts 1 and 2 and fulfil all requirements of amateur and professional sports. Force reduction fulfils the standard and is more than 50%. regugym® vivo with its 14-mm-thick elastic layer is BSW's sports flooring version with the highest force reduction. regugym® vivo is clearly focused on being kind to the joints and on reducing the risk of injuries.

What is more, its resistant wear layer makes it possible to hold cultural and commercial events in halls equipped with regugym® vivo: there is no need for the additional protective layer often necessary on sensitive sports flooring surfaces.

Detailed information regarding the chemical analysis and physical sporting specifications can be found in the product details on our website www.berleburger.com.



1 PUR coloured layer • 2 PUR wear layer • 3 Pores sealed with PUR • 4 Regupol® elastic layer • 5 Adhesive layer • 6 Screed
The product photo featured here also shows an optional stabilising fabric layer.



BSW gives a 15-year guarantee on the functionality of regugym® vivo elastic layers.

Experience indicates that the floor lasts even longer.

**15-year
guarantee**

Areas of Suitability

Ball Games

School sports, club sports: all ball games such as basketball, indoor football, handball, etc.;

Competition sports: indoor football, handball, indoor hockey

Racquet Sports

School sports, club sports: all racquet sports such as volleyball, tennis, badminton, table tennis, etc.

Capture Games

School sports: e.g. dodgeball

Cycling

School sports, club sports: artistic cycling, cycle ball

Gymnastics

School sports, club sports: floor exercises, gyro wheels

Competition sports: floor exercises

Cultural and Commercial Events

Rolling loads up to 1,000 N. Heavy rolling loads should move slowly. Vehicles should move only at walking pace, avoiding any abrupt steering movements. Do not drag sharp heavy objects across the floor.

regugym® eco can withstand glowing cigarettes and is resistant to stains caused by most household fluids. Beverages that leave stains, e.g. red wine, should be wiped off before they dry into the surface.

The New Elastic Layer

The major innovation of the regugym® vivo flooring system is its elastic layer consisting of a special formula made up of BSW's **Regupol®** material. This is a particularly low-emission version of **Regupol®** that remains well below all current EU limit values.

BSW also gives other sports flooring manufacturers the opportunity to profit from this elastic layer. This version of **Regupol®** can also be used as the elastic component for the flooring systems of other manufacturers – as full-surface elastic layer in point and mixed elastic systems or as elastic pad in surface elastic vibration flooring.

Regupol®



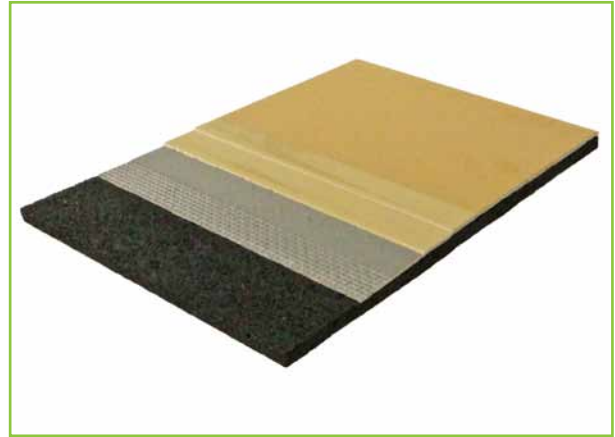
regugym® SR

regugym® SR provides steadfast service in gymnasiums whose floors have to cope with particularly heavy loads. The 4 mm PUR wear layer withstands both shoe spikes and heavy point loads.

As the need arises, regugym® SR can be combined with the **Regupol®** elastic layer of regugym® eco and vivo or with the **Regupol®** elastic layer of regugym® classic. The thickness of the elastic layers can be varied as required, resulting in a wide range of high-resistance point elastic flooring systems.

regugym® SR is suitable particularly for gymnasiums used also for athletics training in addition to normal indoor sports.

regugym® SR is also ideal for exhibitions. The thick PUR wear layer minimises the deformation depression under heavy rolling loads, so that regugym® SR is also an outstanding floor for cycling events. The 4 mm thick wear layer makes regugym® SR extremely durable with a long service life so that it does not deplete natural resources.



Areas of Suitability

Indoor Sports

All kinds of indoor sports at all performance levels

Athletics

School sports, club sports

Cycling

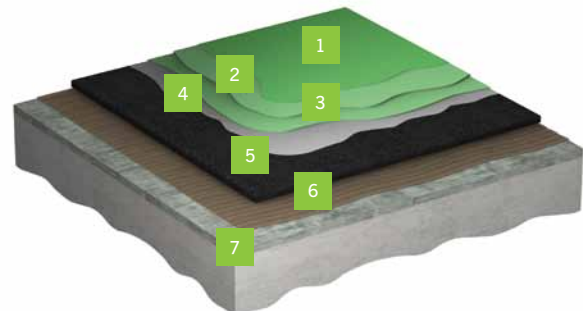
School sports, club sports

Competition sports: artistic cycling, cycle ball

Cultural and Commercial events

Rolling loads up to 1,000 N. Heavy rolling loads should move slowly. Vehicles should move only at walking pace, avoiding any abrupt steering movements. Do not drag sharp heavy objects across the floor.

regugym® SR can withstand shoe spikes, glowing cigarettes and is resistant to stains caused by most household fluids. Beverages that leave stains, e.g. red wine, should be wiped off before they dry into the surface.



- 1 PUR coloured layer • 2 First PUR wear layer • 3 Second PUR wear layer
- 4 Pores sealed with PUR • 5 **Regupol®** elastic layer • 6 Adhesive layer
- 7 Screed

The product photo featured here also shows an optional stabilising fabric layer.

Regupol® AG for Portable Indoor Tracks

Regupol® AG is almost identical to the well-known outdoor tartan track **Regupol® AG**. **Regupol® AG** is the ideal flooring for indoor athletics arenas, suitable for both international competition and for school sports and training. **Regupol® AG** consists of a **Regupol®** elastic layer with polyurethane EPDM wear layer. The granulated surface of this flooring system is identical with the surface of most **Regupol tartan®** tracks, thus also offering ideal indoor conditions for all running and jumping disciplines.

If necessary, **Regupol® AG** can be IAAF certified for competition suitability.



Material Composition

The wear layer consists 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

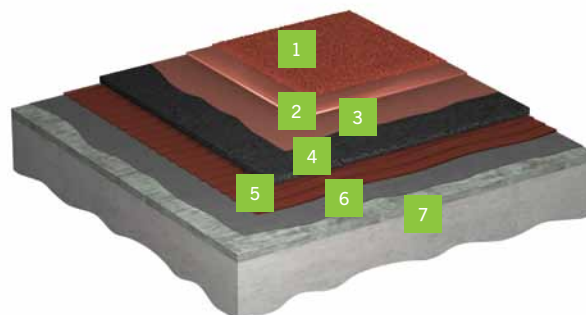
Standard offer: wear layer 3 mm, elastic layer 10 mm;
other thicknesses upon request

Colours

Red, Green; other colours on request

Performance Level

International professional competition, amateur competition,
school and popular sports



1 PUR coloured layer • 2 PUR wear layer • 3 Pores sealed with PUR •
4 **Regupol®** elastic layer • 5 Adhesive layer • 6 Primer • 7 Screed
The product photo featured here also shows an optional stabilising fabric layer.



Ideal Sliding Properties

Safe at Every Twist and Turn

The wear layer of all **regugym®** sports floors comes with a flat, dimpled structure. It reduces surface contact with the soles of sports shoes, achieving an ideal balance between anti-slip and sliding properties. The sliding friction value of **regugym®** is 0.56–0.60 μ , complying with DIN 18032-2 for sports floors. Abrupt stopping and turning is facilitated together with slight sliding, while preventing slipping movements. This balance reduces the risk of injury from stumbling or slipping, reduces the strain on the joints and provides ideal support for the normal movement sequences involved in ball games.

Uniform Elasticity

Fast and Safe

The relatively hard PUR top layer of **regugym®** floors enlarges the deformation impression under load. As point elastic flooring, **regugym®** reacts promptly with appropriate elasticity to even the smallest input, but this reaction takes place over such a wide area that the foot does not “sink” into a depression which would hinder any further movement. The result is therefore fast sport for athletes and safe games for children.

Reliable Shock Absorption

Protection for Children and Competition Athletes

With force-reduction values exceeding 50%, **regugym®** floors warrant reliable protection of joints and tendons. The latest research findings indicate that floors play a far greater role than shoes in joint protection. The force reduction values of **regugym®** in combination with the relatively flat deformation depression act like the natural ground that has been the basis for the evolution of the human locomotor system.

Furthermore, **regugym®** reacts straightaway with appropriate shock absorption even to minor input for example from children, while always responding with the necessary elasticity to stronger input from adult athletes in ratio to the strength of the applied force. Even in professional sport, it is not possible to exceed **regugym®**'s elasticity maximum.

Resistant, Durable

Helps to Save Costs

regugym® is also extremely good value for money. The material and installation of a **regugym®** floor costs far less than a wooden sports floor construction. And that is not all. The durability and robust nature of **regugym®** minimise the need for refurbishment. Normally, a **regugym®** sports floor will last for decades. The surface is extremely resistant to mechanical impacts and to liquids, the elastic layer is moisture-proof and retains its shock-absorbing properties even after many years of use.

regugym® needs only minimum care due to the closed-cell, seamless surface that prevents the accumulation of any dirt. These properties make **regugym®** an extremely worthwhile investment in both the short and the long term.





Health and Environment

Responsibility Leads to Quality

The equation "plastic = environmentally harmful" is a relic of the past. Legislation and regulations have meanwhile created stringent directives regarding health and safety as well as environment protection that have to be heeded by manufacturers, architects and building companies. **regugym®** is an exemplary product in this respect. All components in the flooring system comply with current provisions for environmental protection together with health and safety.

This is why in recent years BSW has developed two new elastic layers with emission values well below the current upper limits. Any contamination of the room air with VOC and PAH is practically ruled out. With this hitherto composition, BSW also sells the elastic layers to other manufacturers of sports flooring systems.

The polyurethanes used for the wear layer in **regugym®** also fulfil these requirements. They, too, are low-emission and completely harmless in skin contact.

regugym® flooring does not deplete natural resources. The **regugym®** elastic layers consist of pure-grade production residues from the plastic and tyre industry, thus comprising useful recycling of waste materials.

Polyurethane is made of crude oil. But the long service life of **regugym®** keeps the consumption of this raw material at a very low level. If crude oil were used only for plastics production, the remaining oil sources would last for several hundred, if not thousand, years. Any more economical use is scarcely conceivable.

regugym® in itself is an energy source. Disposal of **regugym®** consists of incineration. Once **regugym®** sports flooring is removed after decades of use and incinerated in a modern facility, the resulting thermal energy released for use corresponds approximately to that of coal.

Conclusion: **regugym®** is one of the few polyurethane sports flooring systems that has consistently implemented environmental protection. **regugym®** can be used unhesitatingly in compliance with numerous building code regulations in many countries.

Service and Support

Planning Aids

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

Complete Installation

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

Retopping and Refurbishment

BSW refurbishes your **regugym®** indoor sports surfaces, regardless of whether you need simple retopping, repairs of individual sections or complete new installation.



Installing the **Regupol®** elastic layer. The thickness of the elastic rolls produced by BSW is accurate down to one-tenth of a millimetre.



Casting and levelling the polyurethane wear layer.



Information Downloads

All documents and information you need for making your decision, tendering procedures and also for the installation, use and care of BSW products are available at www.berleburger.com. In a matter of seconds you can download technical data sheets, certificates and installation instructions, all in the required file formats.

Click on **Downloads** in the website navigation section.

Up to date information is provided on our website and in the PDF versions of this catalogue. The PDF versions are available for download on our website.

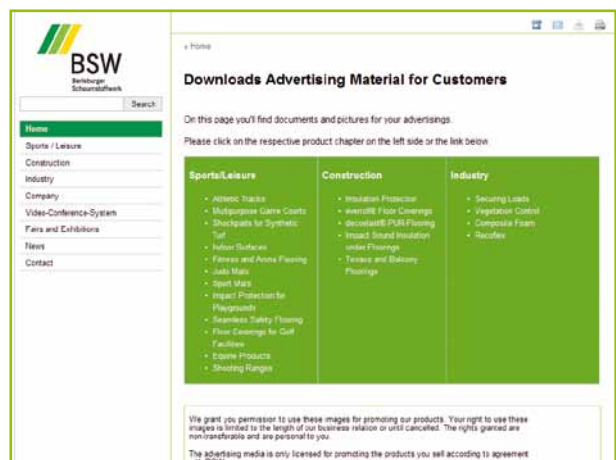
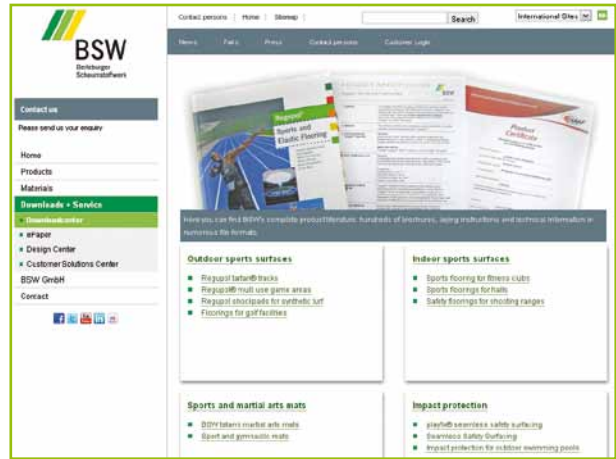


More detailed information and documents can be found at our website www.berleburger.com: press releases, high-resolution press photos, our latest trade fair activities, a hotline to our friendly customer consultants, RSS feeds containing news on BSW, background information, E-Papers, the websites of our subsidiaries and the BSW home page in many different languages.



Our retail and industry customers benefit from our **BSW Media Support**. We offer hundreds of product photos and graphics, presentations, text modules and open files of our product logos, print materials, etc. All materials are available for downloading and designing your own advertising materials. Our marketing department will send you your exclusive link and the access data to the password-protected **BSW Media Support**.

Please do not hesitate to contact our marketing department (contact details below) or our friendly BSW customer consultants, should you have any questions or need assistance.



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