

POLYSPORT **SPORTS FLOORING**



SPORTS FLOORING/
TOP LAYERS/SUBSTRUCTURES

POLYSPORT.DE

WHO WE ARE

WE HAVE BEEN AN
INNOVATIVE PARTNER
FOR THE CONSTRUCTION OF SPORTS HALLS
ACROSS **EUROPE** FOR
MORE THAN **40 YEARS**

YOUR **NO. 1** IN EUROPE FOR THE INTERIOR DESIGN OF **SPORTS HALLS**

POLYSPORT guarantees the very highest levels of performance with an extensive network of partners specialising in sports hall construction in Germany and other European countries. Each individual component is selected for its quality and its properties are inspected in advance. Each and every day we live up to the high standards we set ourselves for the manufacture of **sports flooring, impact walls and acoustic elements.**

OUR **CLAIM**



HIGHEST SAFETY STANDARDS

The components used in POLYSPORT systems are selected based on strict safety-relevant specifications to protect users from dangerous substances. The sports floors are tested and classified for both fire behaviour as well as emissions. The products offer the highest levels of fall safety and slip resistance.



OPTIMUM PERFORMANCE

Our sports flooring systems meet the highest functional sports-related standards, creating the optimum foundation for the athlete. The products' durability and high wear resistance are confirmed and guaranteed through test reports.



CERTIFIED QUALITY

All key properties of the sports floor are measured not only at the start of its service life, but are also subject to annual external inspections. Trained partner companies guarantee flawless installation of the POLYSPORT systems. The TÜV quality certification guarantees the safety and durability of the system in situ inspection of the sports floorings' essential properties.



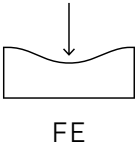


SPORTS FLOORING

THERE IS ONE **PERFECT**
SPORTS FLOOR THAT
MEETS YOUR NEEDS.
WE'LL FIND IT FOR YOU.
THAT'S A PROMISE

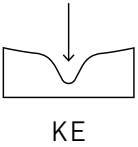


ELASTIC



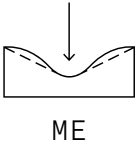
AREA-ELASTIC

The LOAD DISTRIBUTION PLATE strengthens the surface area and provides optimum stability for the athlete. The structure ensures that each point load is distributed across the surface area, resulting in high static and rolling load resistance for sports equipment and stages.



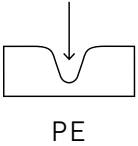
COMBINED-ELASTIC

The area-elasticity of the base system provides optimum stability for the sports flooring, making it ideal for multisport use. The point-elastic covering additionally affords excellent fall safety and impressive levels of comfort for sports played close to the floor.



MIXED-ELASTIC

The elastic and flexible surface covering offers optimum sports functionality. A stiffened middle layer on the point-elastic substrate provides highest levels of stability for the mixed-elastic sports flooring.



POINT-ELASTIC

The fundamental property of point-elastic floors is extremely high cushioning and fall safety, even for low body weights – ideal for children’s and young people’s sport as well as multisport use.

TODAY’S SPORTS HALL FLOORINGS NEED TO BE VERY ROBUST AND ALSO SUITABLE FOR OCCASIONAL EVENTS AND SEATING. THIS NEEDS TO BE CO-ORDINATED BOTH IN TERMS OF THE PERMISSIBLE POINT LOAD AND ALSO THE SUPPORTING LOADS OF THE FLOOR CONSTRUCTIONS.

SPORTS FLOORING SYSTEMS FOR EVERY REQUIREMENT

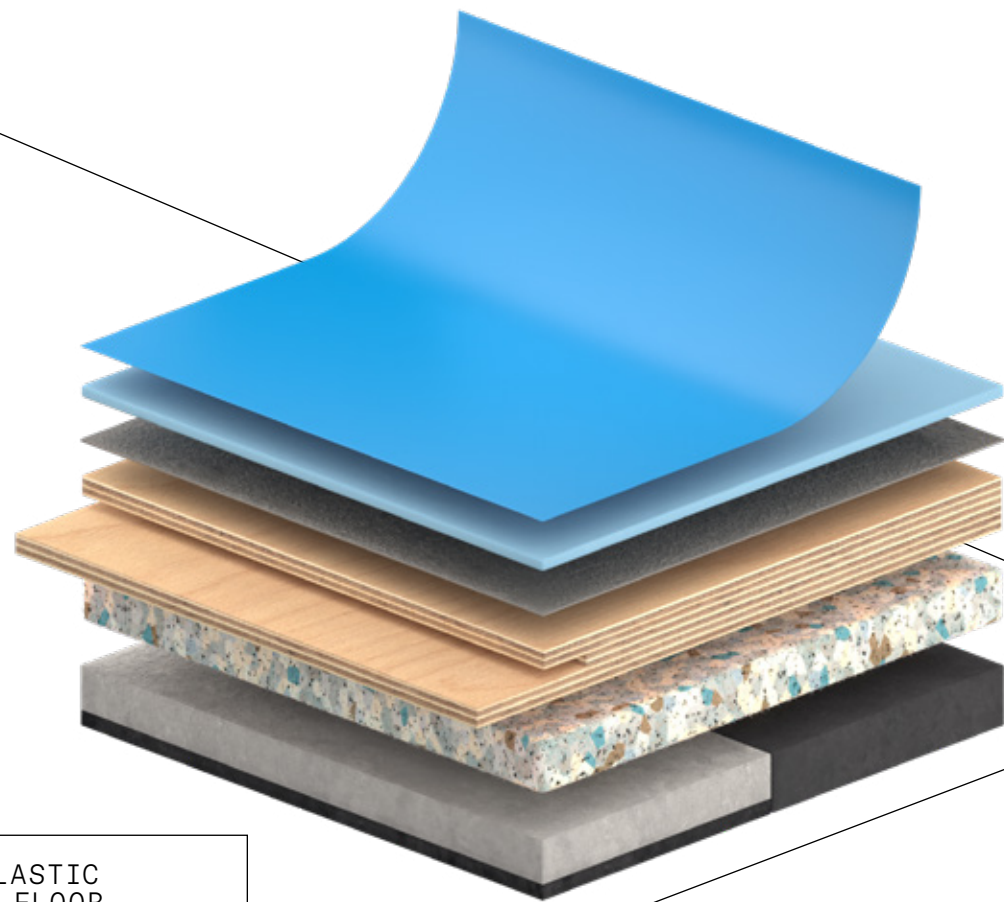
CATEGORY	FE	KE	ME	PE
● CHILDREN AND YOUNG PEOPLE				
● ADULTS				
BALL GAMES FLOORBALL GYMNASTICS BADMINTON				
ROLLER HOCKEY DANCE BICYCLE POLO				
AEROBICS				
● PEOPLE WITH DISABILITIES				
BALL GAMES GYMNASTICS				
WHEELCHAIR SPORTS				

VERY SUITABLE SUITABLE LESS SUITABLE UNSUITABLE

Choosing the right sports floor is one of the most important yet most difficult decisions when planning a sports hall. Alongside the many functional sports-related aspects, the financial, ecological and structural framework conditions also need to be considered.

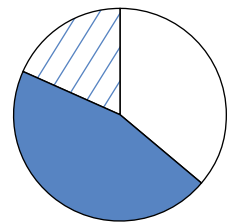


A POLYSPORT UNO



AREA-ELASTIC
SPORTS FLOOR

WEAR COATING



SUITABILITY

- CHILDREN AND YOUNG PEOPLE
- PEOPLE WITH DISABILITIES
- ADULTS

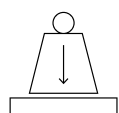
The area-reinforcing surface of POLYSPORT UNO provides optimum stability for the athlete, enabling rapid reactions during team sports. Point loads on the surface are distributed across the surface area, meaning the system has high static and rolling load resistance for both sports equipment and tribunes. The

low rolling resistance makes it suitable for all types of roller sports. When used in schools, low springiness of the floor system should be ensured so that people with a low body weight also benefit from the floor's cushioning effect.

PERFORMANCE

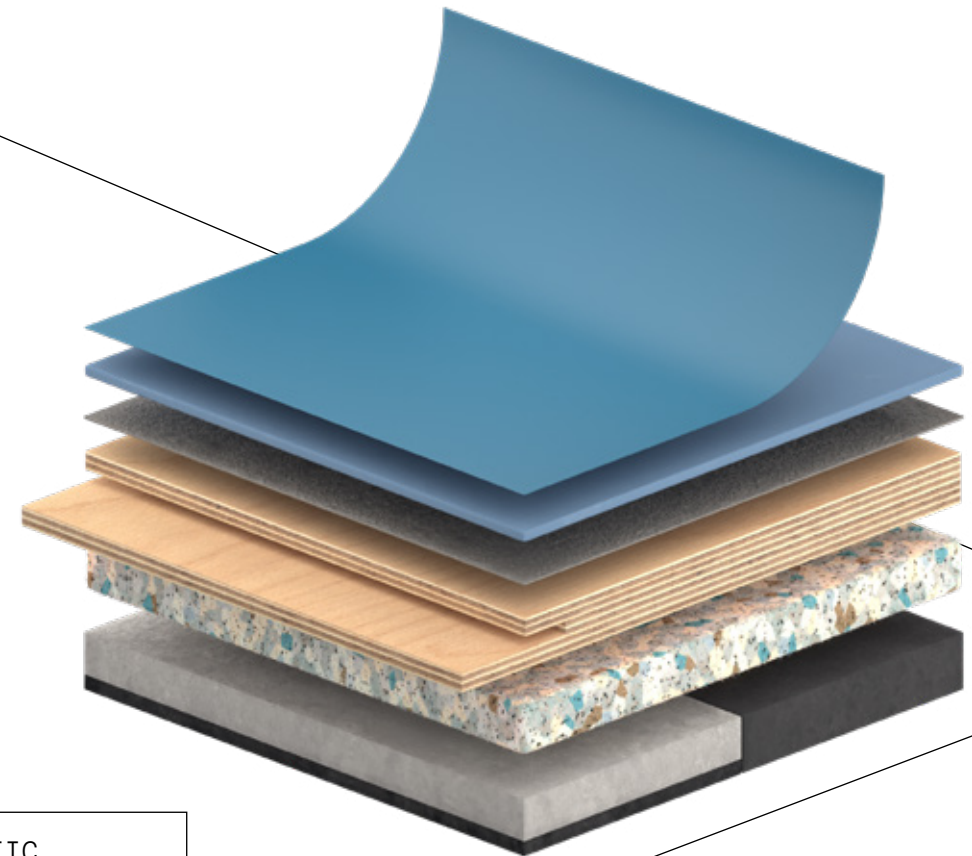


HIGH SPORTS
FUNCTIONALITY



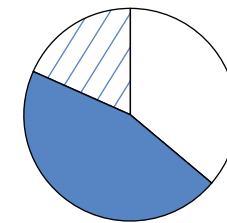
HIGH ROBUSTNESS
WITH STATIC
AND ROLLING LOAD

B POLYSPORT UNO PUR STRONG



AREA-ELASTIC
SPORTS FLOOR

WEAR COATING



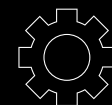
SUITABILITY

- CHILDREN AND YOUNG PEOPLE
- PEOPLE WITH DISABILITIES
- ADULTS

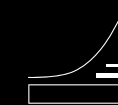
The PUR coatings used in the POLYSPORT UNO PUR STRONG system are characterised by the highest scratch resistance, highest mechanical properties as well as minimal abrasion.

The viscoelastic and highly robust wear coating not only offers optimum sports-related functionality, but also excellent mechanical and chemical durability for multiple uses.

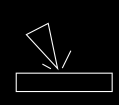
ADDITIONAL PERFORMANCE



MECHANICAL
AND CHEMICAL
DURABILITY



HIGHEST
ABRASION
RESISTANCE



EXCELLENT
SCRATCH
RESISTANCE

C

POLYSPORT COMBI

COMBI-ELASTIC SPORTS FLOOR

WEAR COATING

PUR

SUITABILITY

CHILDREN AND YOUNG PEOPLE

PEOPLE WITH DISABILITIES

ADULTS

D

POLYSPORT DUOLASTIC

MIXED-ELASTIC SPORTS FLOOR

WEAR COATING

LINO PUR

SUITABILITY

CHILDREN AND YOUNG PEOPLE

PEOPLE WITH DISABILITIES

ADULTS

E

POLYSPORT PE

POINT-ELASTIC SPORTS FLOOR

WEAR COATING

PUR

SUITABILITY

CHILDREN AND YOUNG PEOPLE

PEOPLE WITH DISABILITIES

ADULTS

The point-elastic component offers athletes high fall safety and impressive levels of comfort for sports played close to the floor. The direct deformation of the surface on impact also protects athletes with low body weights.

From a functional sports-related perspective, POLYSPORT’s UNO COMBI, -DUOLASTIC and -PE sports floors are suited to all multipurpose sports. Their flexible surface means that they always

specifically yield to the foot of the athlete. Thanks to the relatively rapid reaction time (low springiness of inert material), they offer outstanding protection even for comparatively low loads.

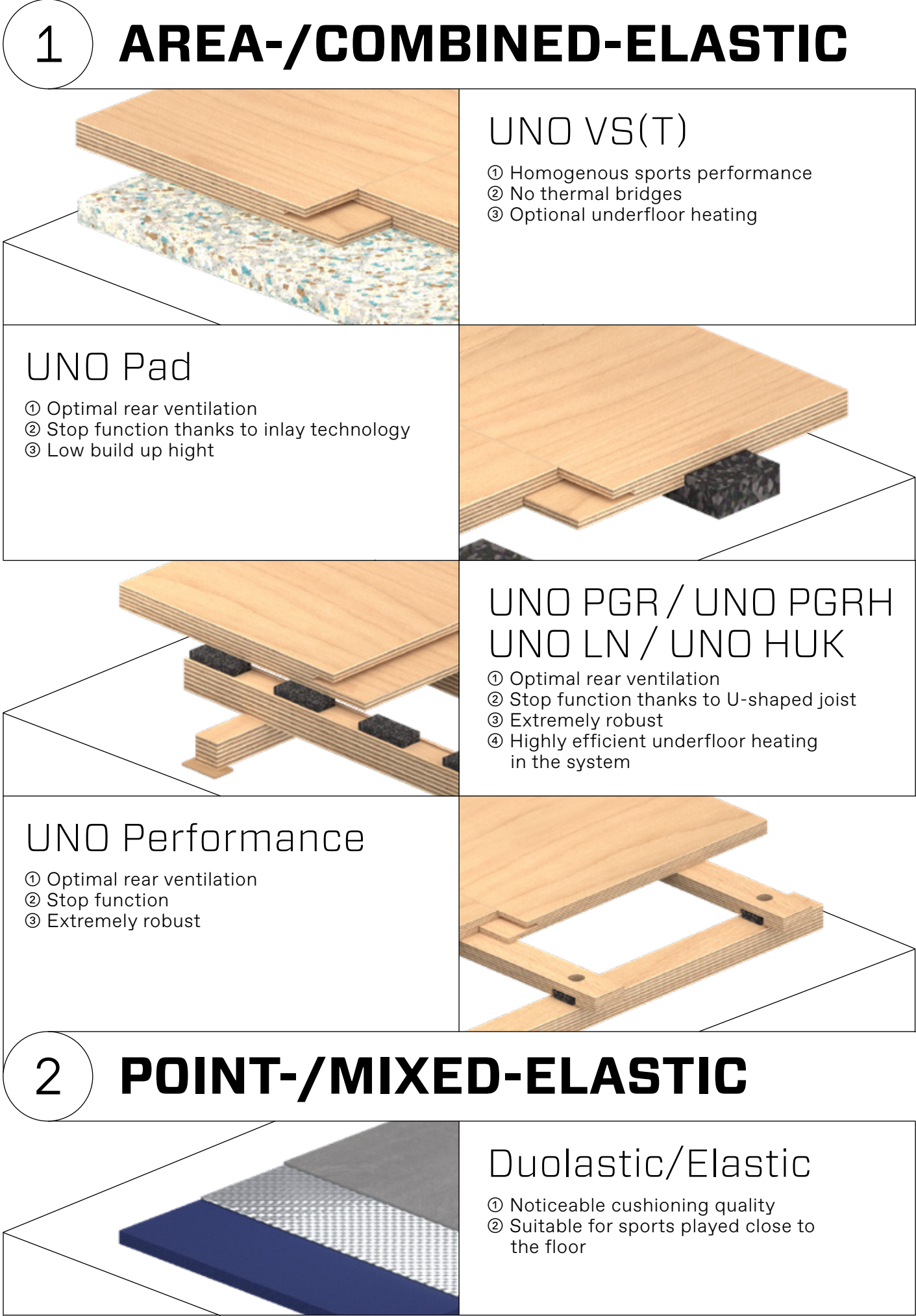
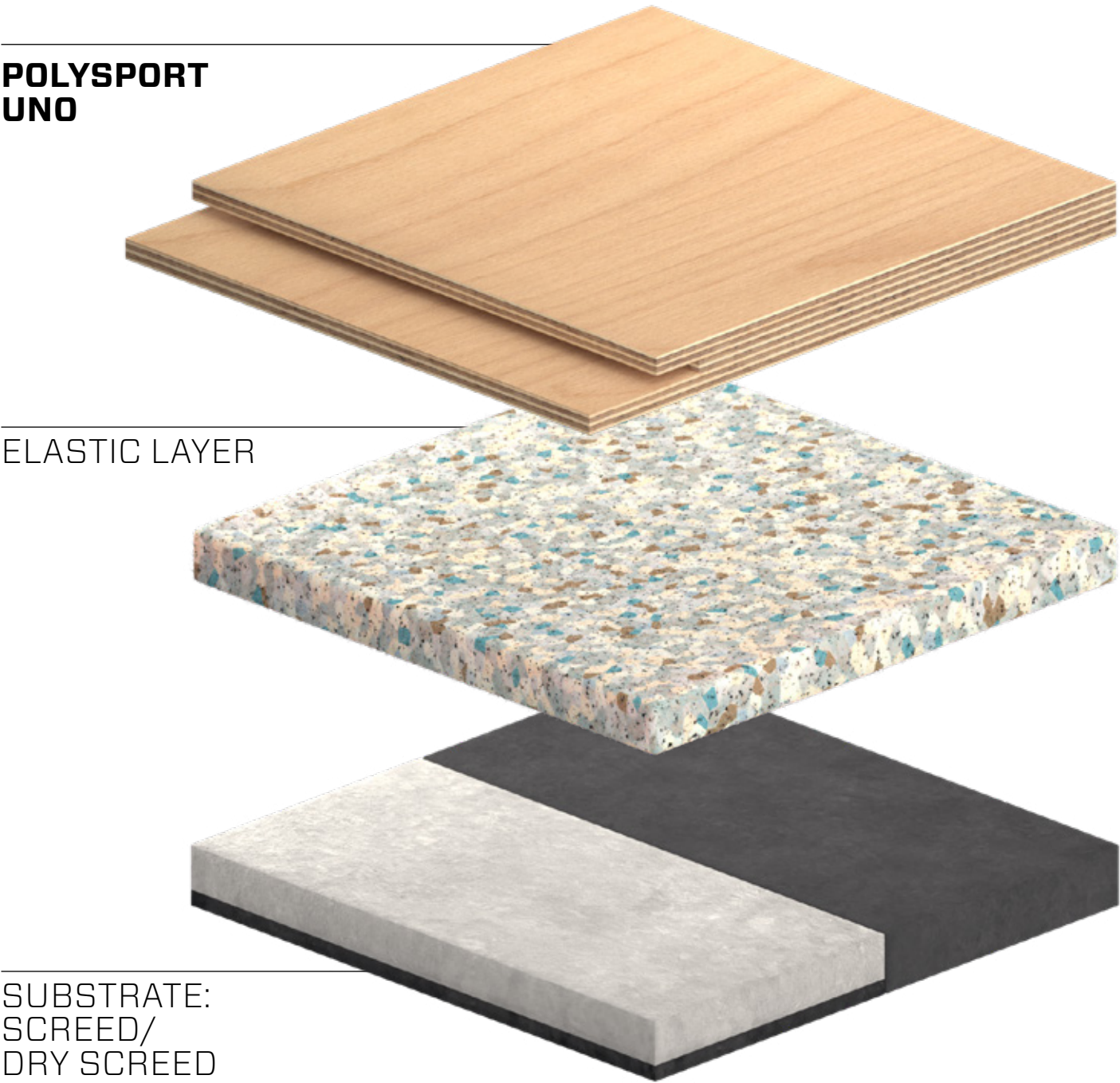
These sports floorings are not suitable for roller sports and dance, where a soft surface is not desirable.

PERFORMANCE

EXCELLENT PROTECTION AND FALL SAFETY

LOW NOISE GENERATION

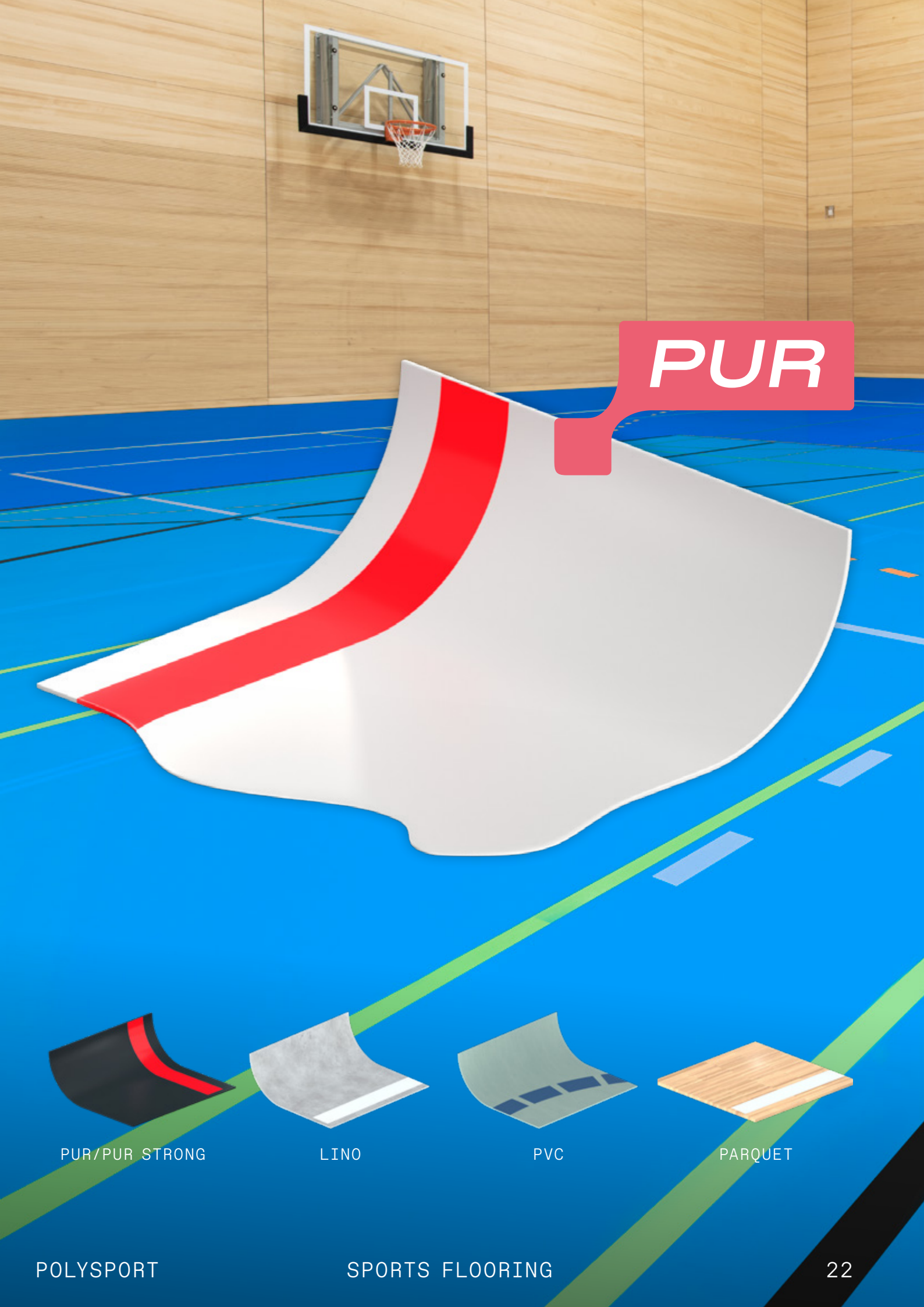
THE POLYSPORT CONSTRUCTIONS FOR SPORTS FLOORS





TOP LAYERS

WHETHER **AREA-**
OR COMBI-ELASTIC –
THE **RIGHT WEAR**
COATING FOR EVERY
CONSTRUCTION



COMPARISON OF SURFACE COVERINGS

	PUR	LINO	PVC	PARQUET
MATERIAL	<ul style="list-style-type: none"> Synthetic 	<ul style="list-style-type: none"> Synthetic/ Natural 	<ul style="list-style-type: none"> Synthetic 	<ul style="list-style-type: none"> Natural
INSTALLATION	<ul style="list-style-type: none"> Jointless PUR seal 	<ul style="list-style-type: none"> Supplied on a roll Welded seams 	<ul style="list-style-type: none"> Supplied on a roll Welded seams 	<ul style="list-style-type: none"> Planks inserted and bonded → joints
COLOUR RANGE	<ul style="list-style-type: none"> All colours Multicoloured Lightfast 	<ul style="list-style-type: none"> Very small Marbled and chipped 	<ul style="list-style-type: none"> Small 	<ul style="list-style-type: none"> Brown shades Wood colours
ODOUR	<ul style="list-style-type: none"> Odourless 	<ul style="list-style-type: none"> Typical odour 	<ul style="list-style-type: none"> Almost odourless 	<ul style="list-style-type: none"> Almost odourless
MAINTENANCE/ CARE	<ul style="list-style-type: none"> Very easy to clean with low maintenance costs 	<ul style="list-style-type: none"> Easy to clean with additional seal 	<ul style="list-style-type: none"> Easy to clean 	<ul style="list-style-type: none"> Easy to clean
REPAIR	<ul style="list-style-type: none"> Very simple Surface colour can be reproduced 	<ul style="list-style-type: none"> Could be difficult to repair due to change of product range, yellowing, ageing 	<ul style="list-style-type: none"> Could be difficult to repair due to change of product range, yellowing, ageing 	<ul style="list-style-type: none"> Visible Complex
RENOVATION	<ul style="list-style-type: none"> Re-topping possible (cost-effective) 	<ul style="list-style-type: none"> Full renovation only 	<ul style="list-style-type: none"> Full renovation only 	<ul style="list-style-type: none"> Sand Reseal

The load borne by sports halls has risen hugely over the last two decades as a result of the increased frequency and intensity of use, for example for events. These extreme usage requirements have led to the fact that mainly

area-elastic sports floor systems are now used. Due to the extraordinary mechanical properties of the seamless PUR coating the wishes of the users are completely fulfilled.

CERTIFIED

INSTALLATION

Installation is carried out exclusively by a trained POLYSPORT partner. All POLYSPORT systems satisfy EU specifications – which can be confirmed via a quality certification for the project (TÜV PROFICERT).





INNOV- ATION

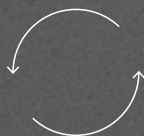
**LOW IN HARMFUL SUB-
STANCES** - OPTIMUM
PROTECTION WITH **PUR**
AND **CLEAN AIR**

TECHNOLOGY
AND **INNOVATION**



PROTECTED
WITH PUR

- No joints
- No swelling/shrinking with moisture and high temperatures
- No cracks



SUSTAINABILITY
AND ECOLOGY

- Low maintenance costs
- Low life cycle costs
- Easy and quick renovation
- Cost-effective renovation
- Low building height



CLEAN AIR

- No harmful substances used
- Lowest possible emissions
- No plasticisers used
- No odours

WE ARE **CONSTANTLY**
DEVELOPING OUR
SYSTEMS

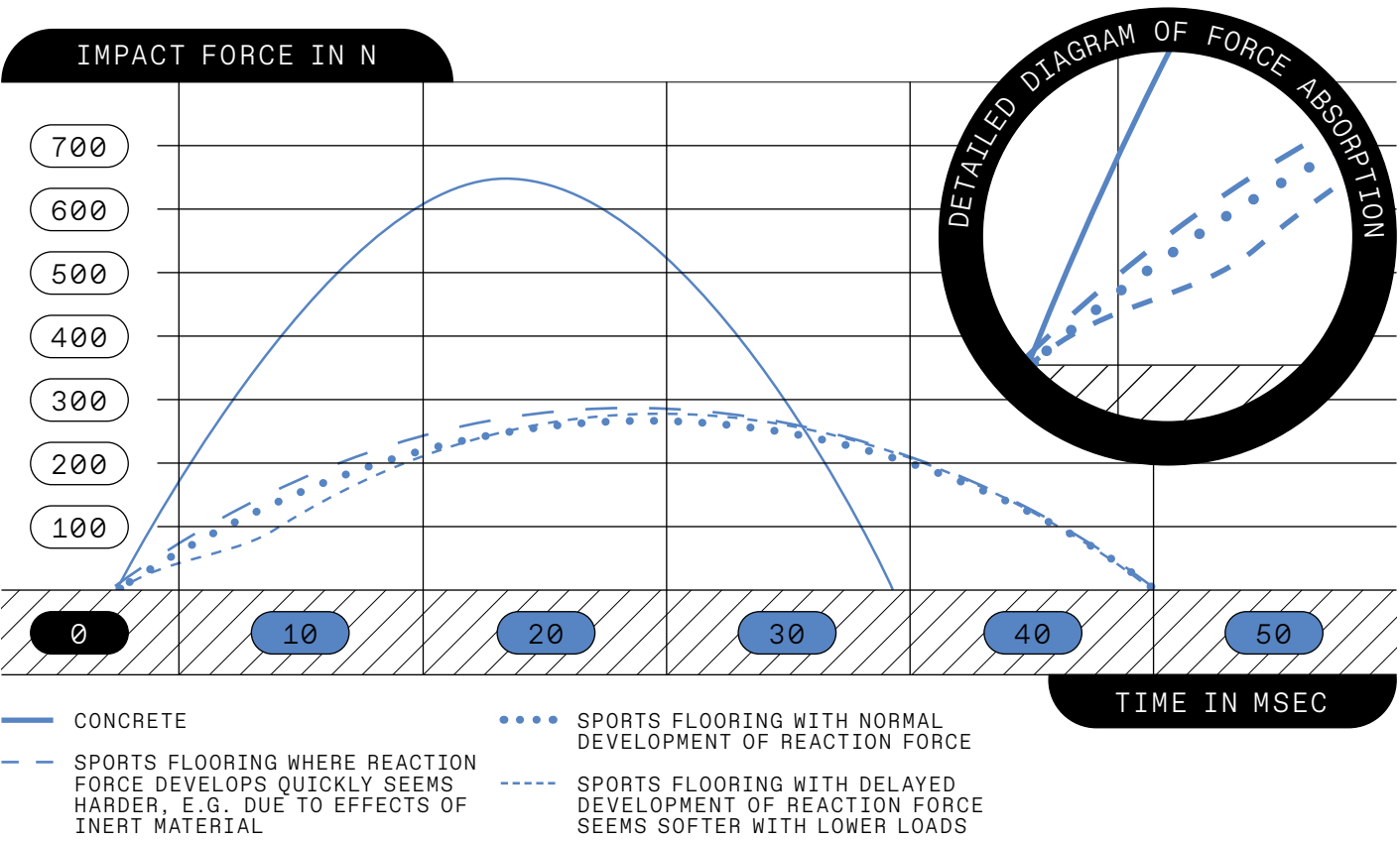
For decades, the name POLYSPORT has stood for innovation and the highest standards in the development of new, advanced and safe systems for sports flooring, impact walls and acoustic systems.

We always implement the latest research from sports science and material technology on board in our work. A constant dialogue with athletes and sports hall operators guarantees our customers modern and progressive sports flooring systems that are tailored to their individual requirements. We pride ourselves on the economically and ecologically sound management of these products and the willingness to take on any challenge, always being open to new ideas and subjecting our products to ongoing development.

By working closely with institutions, associations, universities and suppliers, we ensure that we always remain innovative in the face of the constantly changing market requirements.

FORCE REDUCTION

Reduction of the rebound force (impact force) of the sports floor compared to a rigid floor in percent. When an athlete lands or falls on a pliable sports floor, the rebound force is reduced by the flexibility of the floor. While the rebound force on a rigid concrete floor is 0%, on sports hall floors it generally ranges between 45% and 65%.



The key factor is the increase of the force-time function directly after ground contact. The rising curve for floors with low springiness is flatter—accordingly the protective function of the floor acts more quickly on contact with the floor during the muscle reaction time (i.e. in the first millisecond) after the start of ground contact. This is important because at this time, the athlete’s muscle reactions are not yet active.

Sports floors need both to be usable for sports while also ensuring optimum protection against acute injuries and long-term damage. Compact-elastic floor systems (sandwich systems) usually have a lower springiness than sprung floor systems (system-elastic construction) and are especially suited for deployment in school sports.

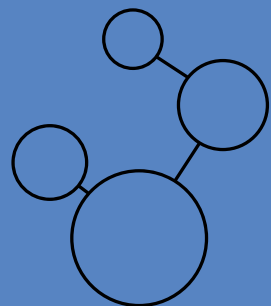




SUSTAIN- ABILITY

**QUALITY AND
ENVIRONMENTAL
CERTIFICATES** ARE
CORE COMPONENTS
OF OUR WORK

WE TAKE RESPONSIBILITY

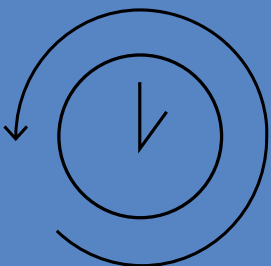
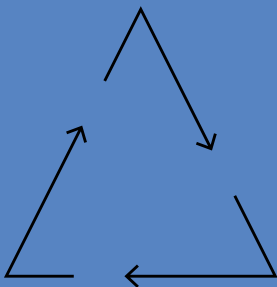


INGREDIENTS

The floor selected has a direct impact on health. The floor occupies a large space within any four walls and strongly influences the quality of the air. What matters most to us is people’s well-being, which is why our materials are low-emission and as far as possible free from VOCs and plasticisers. We work exclusively with controlled ingredients which are conducive to good health and are inspected on an ongoing basis.

RECYCLING

We want our sustainability strategy to be about more than ‘just’ future-proofing our own products. For that reason, our products consist of up to 60% renewable materials such as plywood, natural oils and mineral-based fillers. We are also in the process of increasing the proportion of recycled ingredients further – already 20% – to demonstrate our responsible management of resources and the environment.



ROBUST AND DURABLE

The components we use are selected in accordance with the highest quality standards to ensure the durability of our products across the total life cycle due to the increasing strain they are exposed to. We also consider renovation options that are gentle on the environment and energy-saving, and additionally have a positive influence on the life cycle costs.

CERTIFICATION

Certainty for owners and planners thanks to the independent inspection and certification of our products. That means continuous monitoring of the products for harmful substances to guarantee quality and protection from product risks.



Das Zeichen für verantwortungsvolle
Waldwirtschaft
FSC® C106855



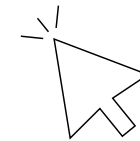




THE **POLYSPORT** RANGE

- Sports flooring
- Point- and area-elastic impact walls
- Certified installation elements like gates and doors
- Acoustic solutions for ceiling and wall

We will be happy to provide you with no-obligation advice on interior planning for your sports hall or to send you our portfolio.



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INFO@POLYSPORT.DE





POLYSPORT GMBH
GEWERBESTRASSE 31
78244 GOTTMADINGEN
GERMANY

PHONE +49 7731 8358313
INFO@POLYSPORT.DE
WWW.POLYSPORT.DE