

REVÊTEMENTS SPORTIFS

Sols PVC pour installations sportives

CATALOGUE 2025

HFS GROUP





THE NEW GENERATION OF POLYURETHANE SURFACES

Grabo's new surface treatment combines state-of-the-art technology with a customized, special lacquer formula. With several months of development work, our engineering team has developed lacquer formulas that best meets the specific requirements of each application. This results in excellent chemical resistance, very easy cleaning and outstanding scuff resistance of our sports floor products.

WHAT ARE THE MOST IMPORTANT FEATURES OF THE X-PUR SURFACE FOR USERS?

OUTSTANDING SCUFF RESISTANCE

Easy to remove shoe marks from X-PUR surface due to its special double-curing process.

EASY CLEANING

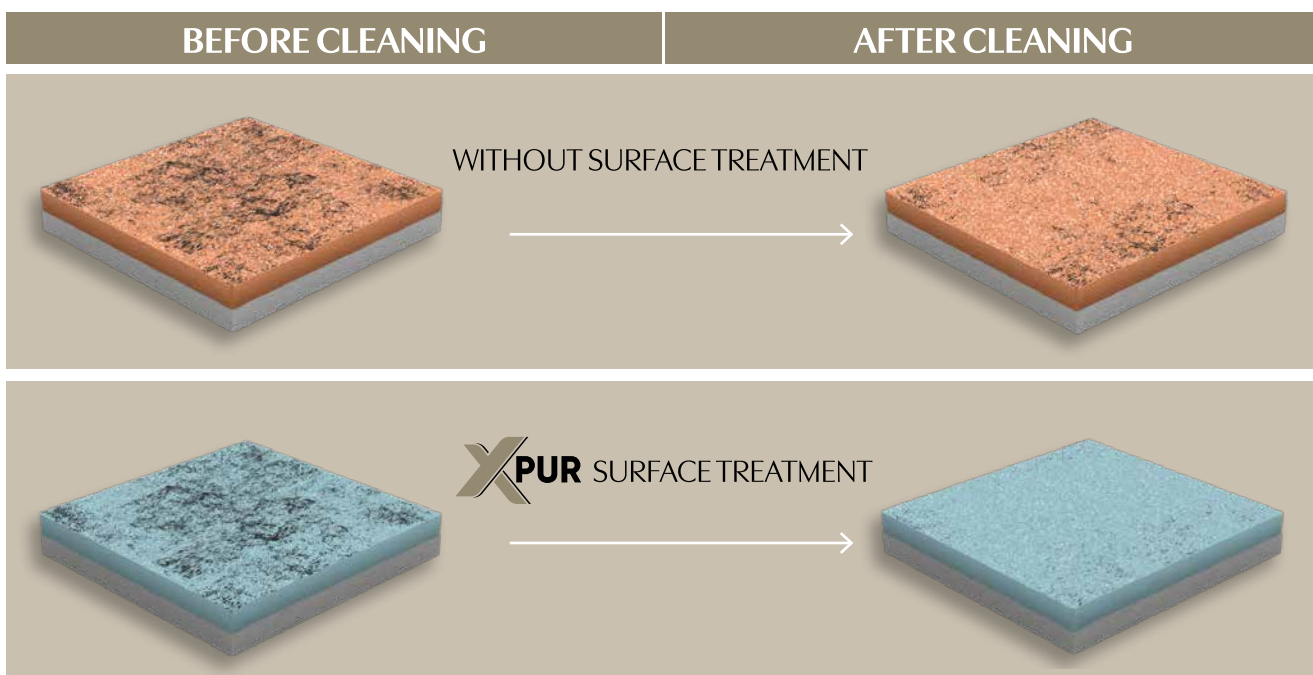
In addition to the special formula- easy cleaning of the surface is due to the completely imporous, closed surface.

AESTHETIC MATT SHINE

In the first cross-linking step, under N₂ atmosphere, with a narrow spectrum UV laser, a micro-structured surface is formed that disperses the incident light beams, resulting in an aesthetic matt surface. Thus, it is not necessary to use a matting agent in the technology, which tends to settle, thereby reducing manufacturing safety and uniform product quality.

DURABILITY

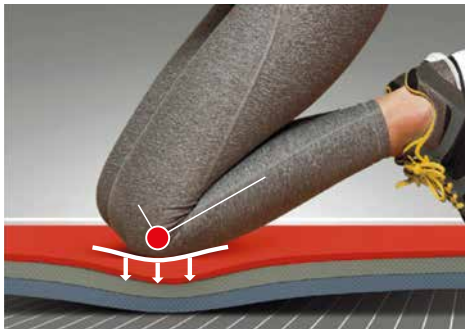
It has two pillars. On one hand, the perfectly cross-link structured closed layer, created with the double curing is harder and more resistant than conventional PUR layers. On the other hand, the abrasion resistant lacquer is applied to the surface in two layers. For these reasons, the product's surface does not need to be treated throughout its lifetime.



WHY GRABO SPORTS FLOORING?

WIDE RANGE OF PRODUCTS/APPLICATIONS

- Solutions for competition, training and leisure
- More options for several applications from kindergartens, fitness centers and to sports facilities for highest level of competition
- 2-10,3 mm thick sports floorings, special coverings and accessories



REDUCED INJURY RISK

- Optimum vertical deformation
- Comfort and protection



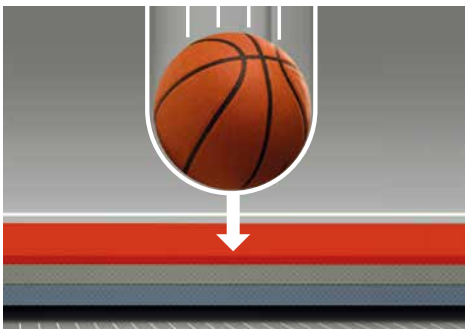
LONG TERM PROTECTION

- Excellent shock absorption
- Genuine joint and cartilage protection



EASY DIRECTION CHANGE

- Coefficient of friction between 0,4-0,7
- Optimal balance of grip and slide



SUPERIOR FOR BALLSPORTS

- Outstanding ball rebound
- Imposing sporting performance

Available in 2 meter wide rolls, therefore less welding, less joints. • quick and cost effective installation	GraboSAN treatment stops the spread of germs. • reduced risk of contamination in case of injury	Our products are made by technological procedures without using solvents or heavy metals • less environmental impact	Due to the special top layer periodical renewal is not necessary. Therefore the flooring can be used continuously • reduced life cycle costs, less chemicals and less energy consumption	High shock absorption due to the bottom foam layer. • comfort and protection Optimized deformation shape and high energy return through the upper foam layer. • easy direction change

ECOLOGICAL FORMULA
Environmental attributes of Grabo vinyl sheet floorings



MEGA
IS GOLD MEDAL WINNER
OF THE RESPONSIBLE
CARE AWARD 2022

GRABO'S

RECOMMENDATION

	MULTIPURPOSE		MULTISPORT · COMPETITION SPORTS			
SPORTS	VariUse 8.3	VariUse 6.2	Mega	Extreme	Supreme	Elite
Aerobic						
Badminton						
Basketball						
Body building						
Cardio training						
Dance						
Fencing						
Floorball						
Futsal						
Gymnastics						
Handball						
Indoor hockey						
Locker room						
Martial arts						
Squash						
Table tennis						
Tennis						
Volleyball						
Wheelchair sports						
FACILITY	VariUse 8.3	VariUse 6.2	Mega	Extreme	Supreme	Elite
Multipurpose hall						
Competition sport facility						
Multisport room						
University, collage						
School, kindergarten						
Fitness center, gym						

Highly recommended

Recommended

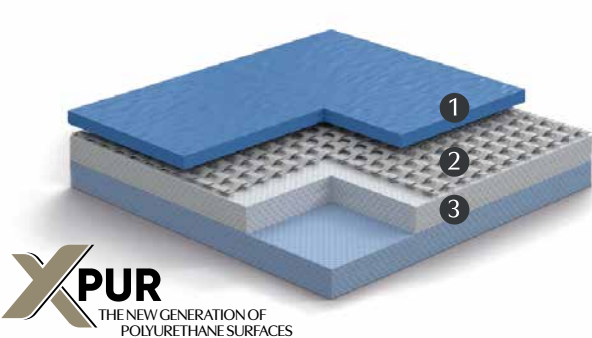
Suitable

MULTISPORT · PE CLASSES · TRAINING · LEISURE					LEISURE · COMPETITION SPORTS	
Gymfit 65	Gymfit 60	Gymfit 50	Start	Stamina	Rocket	SPORTS
						Aerobic
						Badminton
						Basketball
						Body building
						Cardio training
						Dance
						Fencing
						Floorball
						Futsal
						Gymnastics
						Handball
						Indoor hockey
						Locker room
						Martial arts
						Squash
						Table tennis
						Tennis
						Volleyball
						Wheelchair sports
Gymfit 65	Gymfit 60	Gymfit 50	Start	Stamina	Rocket	FACILITY
						Multipurpose hall
						Competition sport facility
						Multisport room
						University, collage
						School, kindergarten
						Fitness center, gym



VariUse 8.3 – THE ULTIMATE MULTIFUNCTIONAL SPORTS FLOOR

- genuine joint protection
- shock absorption category **P2**
- outperforming a competitor product of similar purpose in several aspects
- perfect solution for sport perfect solution for sport
- joint-protecting and safe to use
- excellent in terms of dimensional stability, wear resistance and indentation
- durable, strong, and perfectly structured to install
- stain- and chemical-resistant, easy to keep clean



VARIUSE 8.3

1. X-PUR Wear Layer
2. Glass Fiber Reinforcement
3. Combined Foam Backing

THICKNESS
8.3
mm

P2
EN 14904

25-35%
shock absorption

Highly protective
sports floor



USERS

- Cartilage and joint friendly flooring suitable for all kinds of sports activities.
- Its optimal surface adhesion helps you **quickly change direction and protects** you from accidents caused by slipping.
- Its combined foam back is capable of **great energy absorption and rapid recovery**, thus ensuring a stable basis for exceptional sports performances.
- Its very low indentation, strengthened top layer, **outstanding chemical resistance and easy maintenance** make it the perfect choice for hosting non-sports events.

MAINTENANCE OPERATORS

- No protective covering is required if the floor is used for **non-sports activities**. Two functions may be achieved with one product. No extra personnel are required to coil the protective covering thus saving both time and money. You don't have to worry about storing the protective covering.
- Thanks to the **X-PUR surface** shoes, furniture and equipment do not leave any permanent marks on the surface. It's easy to clean and requires less chemicals and time to clean.
- Because of its glass fibre reinforcement, VariUse 8.3's **dimension stability is exceptional**, so you don't have to worry about any gaps and shrinkage.
- Thanks to its structure and strengthened upper coating, VariUse 8.3 is a durable, long-term solution for which we provide a **15-year guarantee**.

CONTRACTORS

- VariUse 8.3 is an implementation friendly **multipurpose sports floor**.
- The product is characterised by an exceptionally short relaxation period because of its structure. It is almost immediately free of tension after it has been laid out.
- After acclimatisation to temperature, floor may be fixed into place after 6 hours.
- VariUse 8.3 is available in a 2 meter wide roll. Due to its width there is **less welding needed and the installation is quicker**.

DESIGNERS

- With VariUse 8.3, surface design problems can be solved in a single step.
- **You don't need to make a compromise** between sports and non-sports activities due to the floor's performance capacity.





1360-00-279



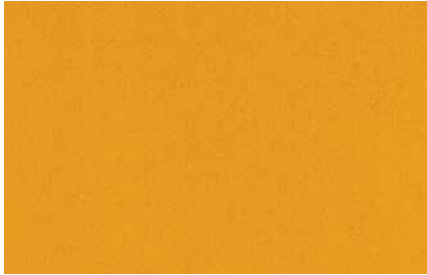
1596-00-279



5016-00-279



2089-00-279



3096-00-279



3338-00-279



7483-00-279



7539-00-279



7143-00-279



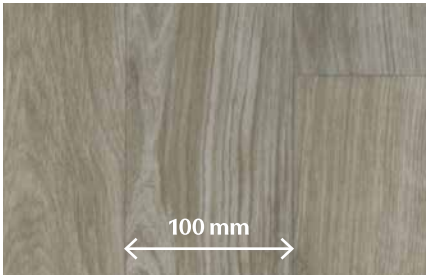
6115-00-279



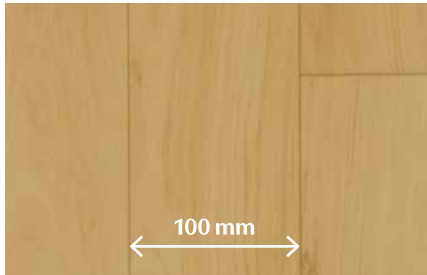
6170-00-279



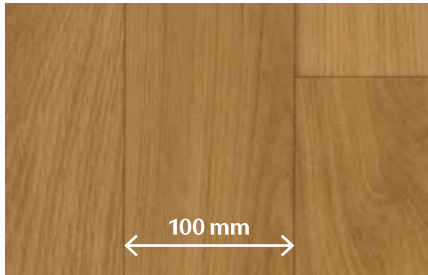
6470-00-279



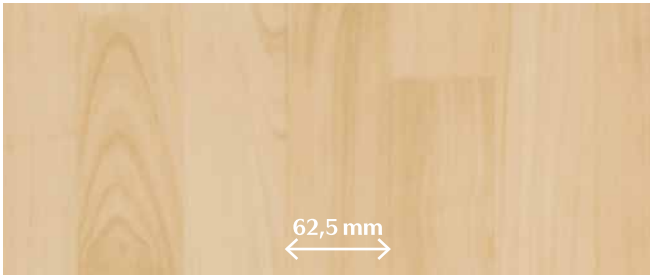
1171-371-279



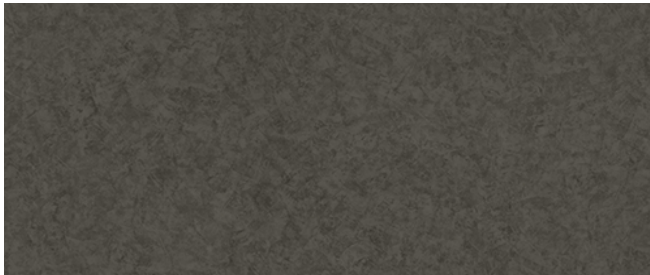
2519-371-279



2209-371-279



2000-378-279

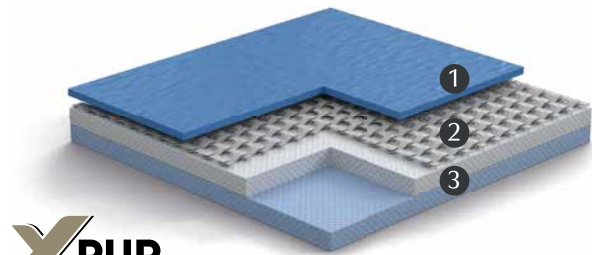


386-868-279

VariUse 6.2 – THE MULTIPURPOSE

PERFECT SOLUTION FOR SPORT AND NON-SPORT EVENTS

- genuine joint protection – shock absorption category **P1**
- outstanding sport properties
- indentation resistant
- durable
- easy-to-maintain



X-PUR
THE NEW GENERATION OF
POLYURETHANE SURFACES

VARIUSE 6.2

1. **X-PUR** Wear Layer
2. Glass Fiber Reinforcement
3. Combined Foam Backing

THICKNESS
6.2
mm

P1
EN14904

25-35%
shock absorption

Protective sports
floor



BENEFITS

TWO IN ONE PRODUCT

- Excellent for sport and non-sport activities
- No protective covering, no extra personnel is needed to protect your floor

DURABLE X-PUR SURFACE

- Wear and scuff-resistant
- Easy-to-clean

STABLE CONSTRUCTION

- Low indentation
- Dimensional stability – due to its fibre glass reinforcement

15-YEAR GUARANTEE

FOR USERS

SAFE BASIS OF SPORT PERFORMANCE

- Long term joint and cartilage protection, due to its combined foam backing
- Thanks to its optimal surface adhesion which allows quick direction change while protects against slipping

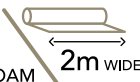
PERFECT CHOICE FOR NON-SPORT EVENTS

- Excellent walking comfort
- Long-life, stain and chemical resistant product

FOR CONTRACTORS

EASY AND QUICK INSTALLATION

- Less welding – 2 meter wide rolls
- Short relaxation time – tension free product





1360-00-275



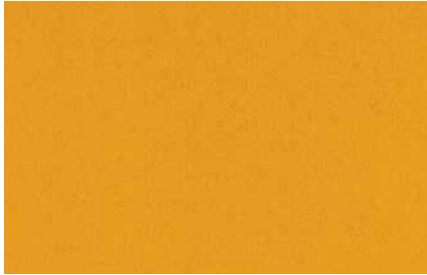
1596-00-275



5016-00-275



2089-00-275



3096-00-275



3338-00-275



7483-00-275



7539-00-275



7143-00-275



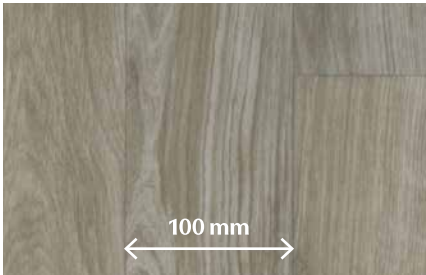
6115-00-275



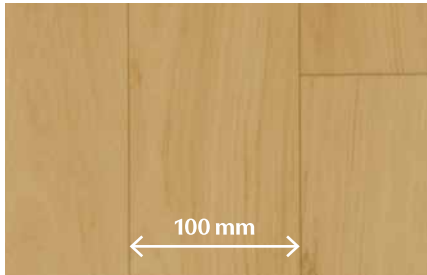
6170-00-275



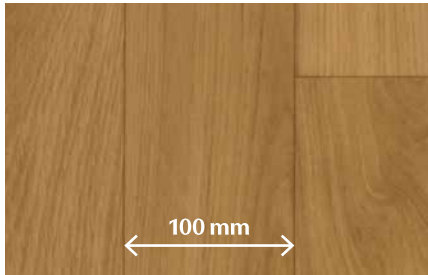
6470-00-275



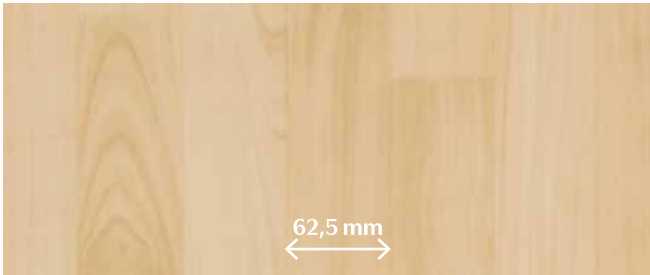
1171-371-275



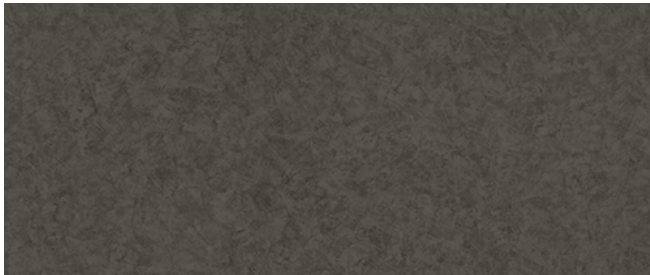
2519-371-275



2209-371-275



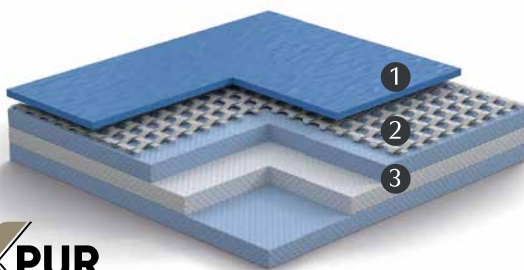
2000-378-275



386-868-275

COMPETITION SPORT

- High shock absorption due to its Combined Foam Backing > **Long term joint and cartilage protection**
- Stable construction and outstanding ball rebound > **Ideal for game ball sports**
- Excellent foam quality, optimal vertical deformation > **Reduced risk of injury, higher underfoot comfort**
- Due to its graboSAN treatment > **Stops the spread of germs**
- 2 m wide rolls > **Less welding and joints**



X-PUR
THE NEW GENERATION OF
POLYURETHANE SURFACES

MEGA

1. **X-PUR** Wear Layer
2. Glass Fiber Reinforcement
3. Three layers of Closed-cell foam

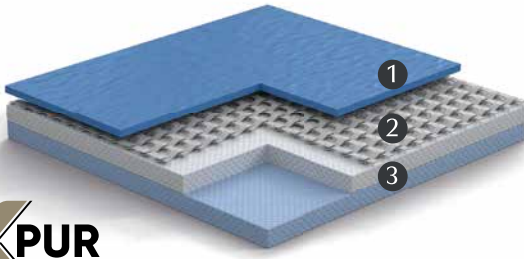
THICKNESS
10.3
mm

P3
EN 14904

≥45%
shock absorption

Maximum-protection
sports floor





X-PUR
THE NEW GENERATION OF
POLYURETHANE SURFACES

EXTREME

1. **X-PUR** Wear Layer
2. Glass Fiber Reinforcement
3. Combined Foam Backing

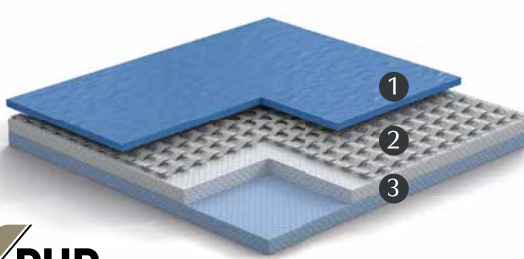
THICKNESS
8.0
mm

P2
EN 14904

35-45%
shock absorption

Highly protective
sports floor





X-PUR
THE NEW GENERATION OF
POLYURETHANE SURFACES

SUPREME

1. **X-PUR** Wear Layer
2. Glass Fiber Reinforcement
3. Combined Foam Backing

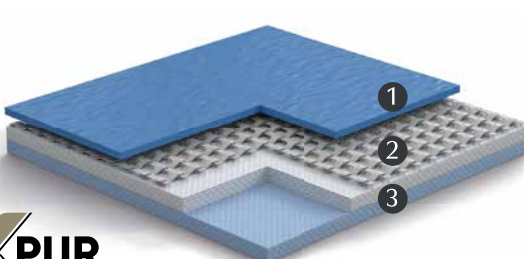
THICKNESS
6.7
mm

P1
EN 14904

25-35%
shock absorption

Protective sports
floor





X-PUR
THE NEW GENERATION OF
POLYURETHANE SURFACES

ELITE

1. **X-PUR** Wear Layer
2. Glass Fiber Reinforcement
3. Combined Foam Backing

THICKNESS
6.0
mm

P1
EN 14904

25-35%
shock absorption

Protective sports
floor





1360-00-275 |



1596-00-275



5016-00-275 |



2089-00-275



3096-00-275 |



3338-00-275 |



7483-00-275 |



7539-00-275



7143-00-275



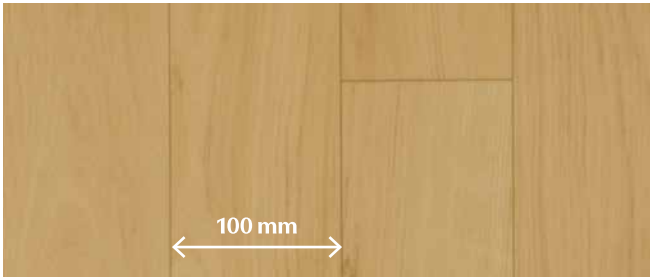
6115-00-275



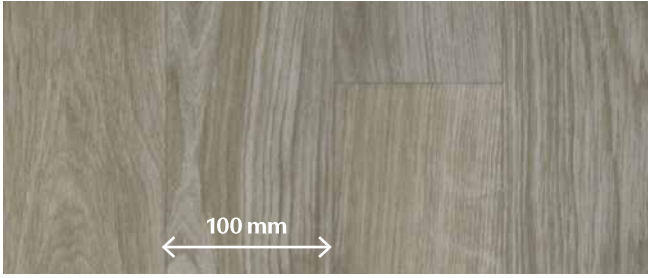
6170-00-275 |



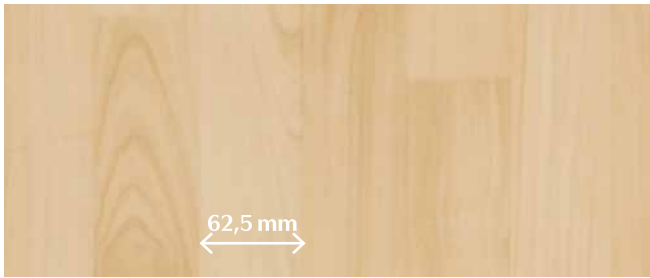
6470-00-275



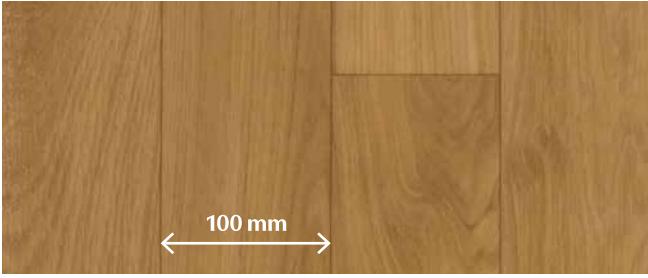
2519-371-275 |



1171-371-275



2000-378-275

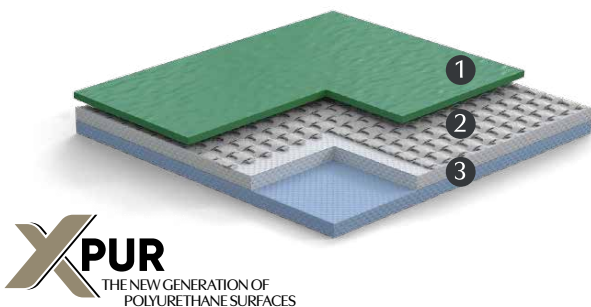


2209-371-275

FITNESS, LEISURE AND MULTISPORT FOR SCHOOLS

- Coefficient of friction between 0,4-0,7 > **Optimal balance of grip and slide**
- Easy to clean without periodical polishing > **Less energy consumption, less maintenance cost**
- Optimal specular gloss
- Solvent and heavy metal free products
- 100 % recyclable
- Contains pre-consumer recycled materials
- Light weight and flexible; Available in rolls > **Easy and quick installation**
- 2 m wide rolls > **Less welding and joints**

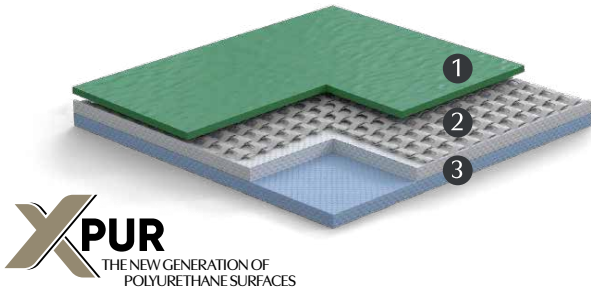
GYMFIT 65



1. **X-PUR** Wear Layer
2. Glass Fiber Reinforcement
3. Combined Foam Backing

THICKNESS
6.5
mm

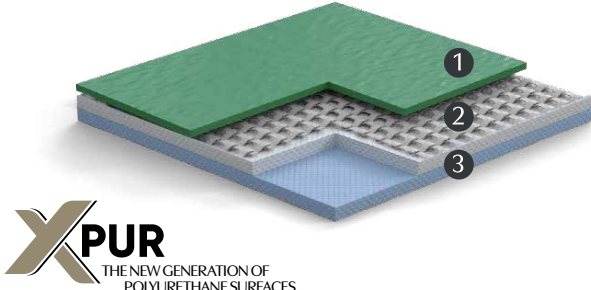
GYMFIT 60



1. **X-PUR** Wear Layer
2. Glass Fiber Reinforcement
3. Combined Foam Backing

THICKNESS
6.0
mm

GYMFIT 50

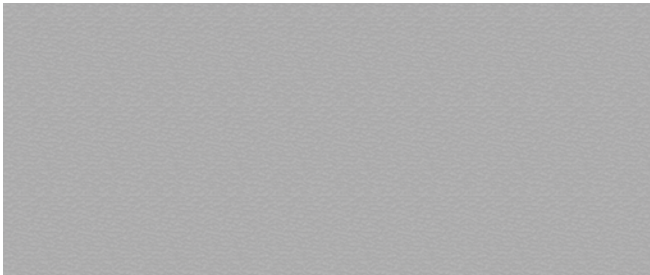


1. **X-PUR** Wear Layer
2. Glass Fiber Reinforcement
3. Combined Foam Backing

THICKNESS
5.0
mm

COLORS FOR

GYIMFIT 65, GYIMFIT 60 and GYIMFIT 50



1360-279



6215-279



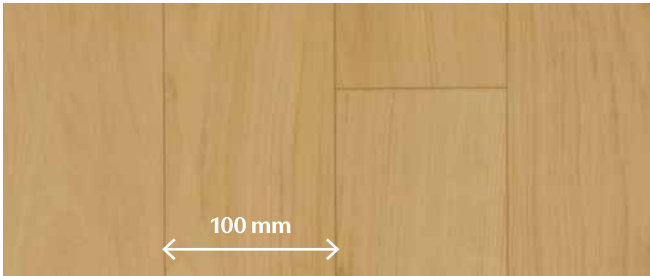
3338-279



7338-279



5016-279

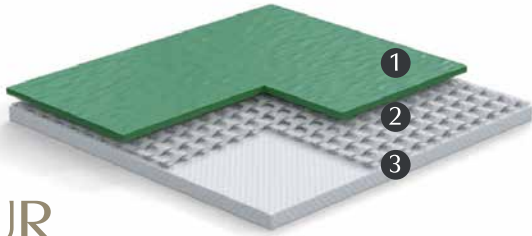


2519-371-279



FOR KIDS

- Coefficient of friction between 0,4-0,7 > **Easy direction change**
- No periodical polishing required > **Less energy consumption, less maintenance cost**
- Optimal specular gloss
- Solvent and heavy metal free; low VOC > **Environmentally sound solution**
- 100 % recyclable
- Contains pre-consumer recycled materials
- Light weight and flexible; Available in rolls > **Easy and quick installation**
- 2 m wide rolls > **Less welding and joints**



START

1. **PURSurface** Wear Layer
2. Glass Fiber Reinforcement
3. Closed-cell Foam

THICKNESS
4.0
mm

PUR

SURFACE

COLORS FOR START



4000-665



4000-660



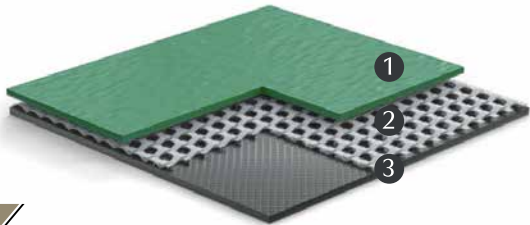
4000-659



4181-651



STAMINA



- 1. X-PUR Wear Layer
- 2. Glass Fiber Reinforcement
- 3. Compact Backing

THICKNESS
2.0
mm



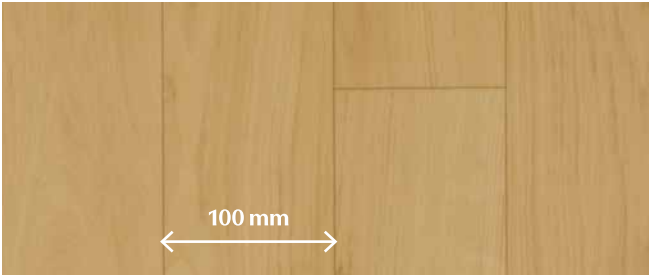
COLORS FOR STAMINA



7483-00-275



6170-00-275



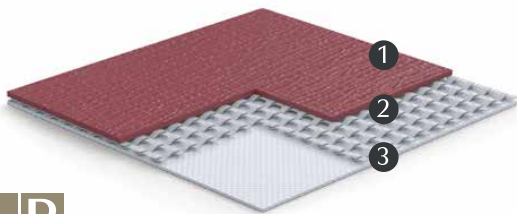
2519-371-275



FOR BADMINTON AND TABLE TENNIS

- Light weight › Easy to roll in and out › **Suitable for temporary use**
- Optimal specular gloss
- Solvent and heavy metal free; low VOC › **Environmentally sound solution**
- Contains pre-consumer recycled materials
- 100 % recyclable

ROCKET



1. **CLP** Wear Layer
2. Glass Fiber Reinforcement
3. Closed-cell Foam

THICKNESS
3.8
mm

CLP
SYSTEM

COLORS FOR ROCKET



4387



7533





SPECIALITIES & ACCESSORIES

GRABOREX

DAMP PROOF MEMBRANE

Damp proof membrane for protection against moisture and for quicker installation.

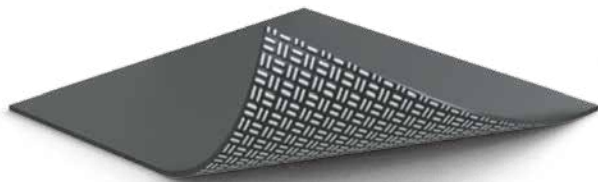
TECHNICAL DATA

Width	EN ISO 24341	2000 mm
Standard roll length	EN ISO 24341	35 ± 10%
Thickness	EN ISO 24346	1.3 mm

GRABOREX T

GRABOREX T

THICKNESS
1.3
mm



4250-991

PROTECTSPORT

PROTECTIVE COVERING

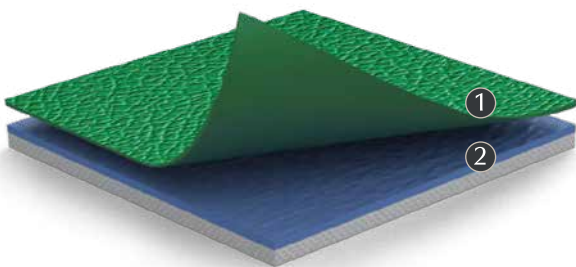
Protects the sport flooring during non-sportive events. Easy to roll up and down.

TECHNICAL DATA

		PROTECTSPORT	PROTECTSPORT ARENA
Width	EN ISO 24341	1400 mm	2000 mm
Standard roll length	EN ISO 24341	25 ± 10%	25 ± 10%
Thickness	EN ISO 24346	1.5 mm	1.6 mm

PROTECTSPORT

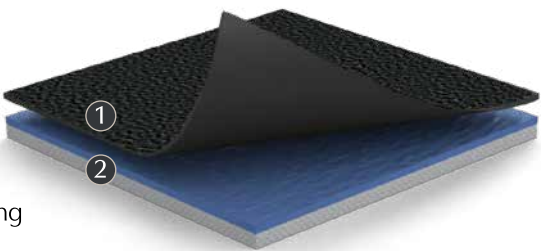
THICKNESS
1.5
mm



- 1. Protective covering
- 2. Sport flooring

PROTECTSPORT ARENA

THICKNESS
1.6
mm



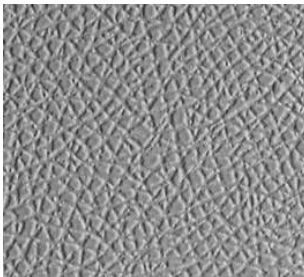
Protectsport



1784



7522



1290

Protectsport Arena



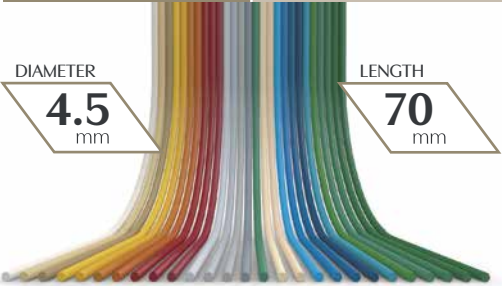
1784-273

GRABOWELD

WELDING ROD

Matching to grabo sports flooring designs, guarantees impermeable joints by hot welding.

FLOORING	WELDING ROD
1360	1370
1596	1675
2089	1133
3096	3884
3254	3254
3338	3338
386-868	1239
4081	4081
4289	4738
6115	6115
6170	6170
6470	6470
7143	7143
7483	7484
7539	7539
1171-371	1246
2000-378	2000
2209-371	2149
2519-371	2571
4000-626	1286
4000-635	3553
4000-647	4725
4000-659	6346
4000-660	7507
4000-665	3573
4000-675	7533
4000-682	6115
4181-651	2243
4217-671	2233
4231-674	1794
4387	4738
7533	7533



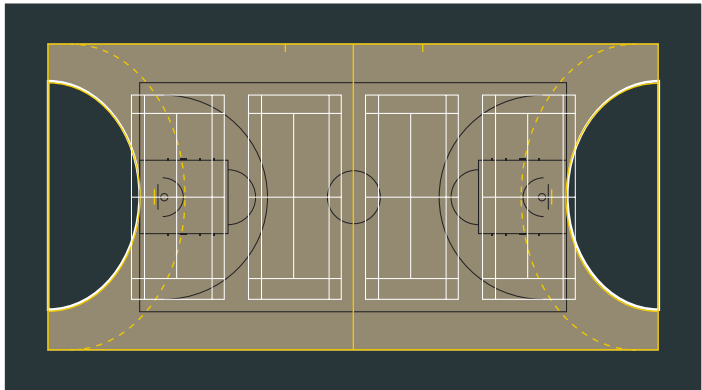
GRABOCOLOR

PAINTS FOR MARKING SPORTS GROUND LINES

Required quantity: 1l for 100 m long, 50 mm wide line.



RECOMMENDED COLORS		
Badminton		110 m
Basketball		210 m
Floorball		60 m
Handball		230 m
Indoor football		210 m
Indoor hockey		180 m
Netball		150 m
Tennis		150 m
Volleyball		80 m



SELF-VENTILATED SKIRTING

MADE OF PRIMED, VARNISHED OAK

Covers the expansion gap between sportsfloor and wall, ensures good ventilation of the flooring, provides a nice appearance for the sports hall.

HEIGHT	WIDTH	LENGTH BETWEEN



TECHNICAL DATA

FOR COMPETITION SPORTS & MULTIPURPOSE

DESCRIPTION			VARIUSE 8.3	VARIUSE 6.2	MEGA	EXTREME	SUPREME	ELITE
Thickness	mm	EN ISO 24346	8.3	6.2	10.3	8.0	6.7	6.0
Weight	kg/m²	EN ISO 23997	5.0	4.3	5.2	4.3	3.6	3.2
Width	m	EN ISO 24341	2	2	2	2	2	2
Standard roll length	m	EN ISO 24341	15	20	15	15	20	20

CLASSIFICATION

Product specification			EN 14904	EN 14904	EN 14904	EN 14904	EN 14904	EN 14904
Impact sound insulation	ΔL_w (dB)	EN ISO 717-2	-	19	21	21	22	21
Thermal resistance	m²K/W	EN ISO 10456	0.12	0.08	0.15	0.12	0.1	0.09
Flammability		NF P 92-512	-	-	-	M3	M3	M3
		EN 13501-1	Cfl-S1	Cfl-S1	Cfl-S2	Cfl-S1	Cfl-S1	Cfl-S1
		ÖNORM B3810/B3800/2	-	-	-	B1-Q1	B1-Q1	B1-Q1
		ISO 3795	-	-	-	100	100	100

SPORT PROPERTIES

Rotational friction		EN 13036-4	80-110	80-110	80-110	80-110	80-110	80-110
Shock absorption	%	EN 14808	P2	P1	P3	P2	P1	P1
Vertical deformation	mm	EN 14809	≤2	≤2	≤2	≤2	≤2	≤2
Ball rebound	%	EN 12235	≥90	≥90	≥90	≥90	≥90	≥90
Specular gloss		EN 2813	≤30	≤30	≤30	≤30	≤30	≤30

TECHNICAL CHARACTERISTICS

Dimensional stability	max.%	EN ISO 23999	+/-0.2	+/-0.2	+/-0.2	+/-0.2	+/-0.2	+/-0.2
Indentation resistance	mm	EN 1516	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Resistance to rolling load	1500 N	EN 1569	no damage	no damage	no damage	no damage	no damage	no damage
Colour fastness		ISO 105 B02	6	6	6	6	6	6
Resistance to chemicals		EN ISO 26987	✓	✓	✓	✓	✓	✓
Abrasion resistance (H18 wheel)	≤1000 mg/1000 cycles	EN ISO 5470-1	<250	<250	<250	<250	<250	<250
Abrasion group		EN 660-1	T	T	T	T	T	T



OTTO-GRAF-INSTITUT
UNIVERSITÄT STUTTGART



ISP
WWW.ISP-GERMANY.COM
INSTITUT FÜR SPORT ÄTZENPRÜFUNG



CRITT
RAPPORT D'ESSAIS
EN LABORATOIRE



CST
CENTRE FOR SPORTS
TECHNOLOGY



CE
1415-CPD-25
(C-48/2006)



PC



öti



TECHNICAL DATA

FOR LEISURE SPORTS & TRAINING

DESCRIPTION			GYMFIT 65	GYMFIT 60	GYMFIT 50	START	STAMINA	ROCKET
Thickness	mm	EN ISO 24346	6.5	6.0	5.0	4.0	2.0	3.8
Weight	kg/m²	EN ISO 23997	3.3	3.3	2.8	2.6	2.8	2.5
Width	m	EN ISO 24341	2	2	2	2	2	2
Standard roll length	m	EN ISO 24341	20	15	20	20	20	20

CLASSIFICATION								
Product specification			EN 651	EN 651	EN 651	EN 651	EN 649	EN 651
Impact sound insulation	ΔL_w (dB)	EN ISO 717-2	15	16	16	-	-	-
Thermal resistance	m²K/W	EN ISO 10456	0.1	0.07	0.07	0.06	0.01	0.05
Flammability		NF P 92-512	M3	M3	M3	-	-	-
		EN 13501-1	Cfl-S1	Cfl-S1	Cfl-S1	Cfl-S1	Cfl-S1	Cfl-S1
		ÖNORM B3810/B3800/2	B1-Q1	B1-Q1	B1-Q1	-	-	-
		ISO 3795	100	100	100	100	100	100

SPORT PROPERTIES								
Rotational friction		EN 13036-4	80-110	80-110	80-110	80-110	80-110	80-110
Shock absorption	%	EN 14808	14	18	14	9	-	-
Vertical deformation	mm	EN 14809	≤2	≤2	≤2	≤2	-	≤2
Ball rebound	%	EN 12235	>90	>90	>90	>90	>90	>90
Specular gloss		EN 2813	≤ 10	≤ 10	≤ 10	≤ 30	≤ 10	≤ 30

TECHNICAL CHARACTERISTICS								
Dimensional stability	max.%	EN ISO 23999	+/-0.2	+/-0.2	+/-0.2	+/-0.2	+/-0.2	+/-0.2
Indentation resistance	mm	EN 1516	<0.5	<0.5	<0.5	-	<0.25	-
Resistance to rolling load	1500 N	EN 1569	no damage	no damage	no damage	no damage	no damage	no damage
Colour fastness		ISO 105 B02	6	6	6	6	6	6
Resistance to chemicals		EN ISO 26987	✓	✓	✓	✓	✓	✓
Abrasion resistance (H18 wheel)	≤1000mg/1000 cycles	EN ISO 5470-1	<250	<250	<250	<250	<250	<250
Abrasion group		EN 660-1	T	T	T	T	T	T

