

recreation



Grabo
sport

FLOORING

INNOVATIVE SURFACE SOLUTIONS



Silver Knight | the most hygienic vinyl surface

Due to our patented technology we invented the unique Silver Knight surface. It's disinfecting activity based on a double defense line of nano-Silver and nano TiO₂. Through double defense line Silver Knight eliminates more than 99% of harmful bacteria and viruses. It reduces the adhesion of dirt and helps to improve indoor air quality.

Benefits:

- Double defense line – **permanent disinfection for the highest hygiene**
- Decomposes odors and dirt – **easy maintenance, better indoor air quality**
- Destroy bacteria without the use of chemicals – **healthy and environmentally sound solution**

TECH Surface

Due to its special composition TECH Surface provides high durability and easy to clean properties during the whole lifetime of the product. It contains micronised Al₂O₃ particles for wear resistance, and polyurethane (PUR) for cleanability.



Benefits:

- Patented technology – **unique combination of Al₂O₃ and PUR**
- PUR provides easy to clean properties – **no polish required**
- Al₂O₃ particles increase the abrasion resistance – **higher durability**

CARDIO / AEROBIC

Silver Knight FITNESS



SILVER KNIGHT

SOLVENT

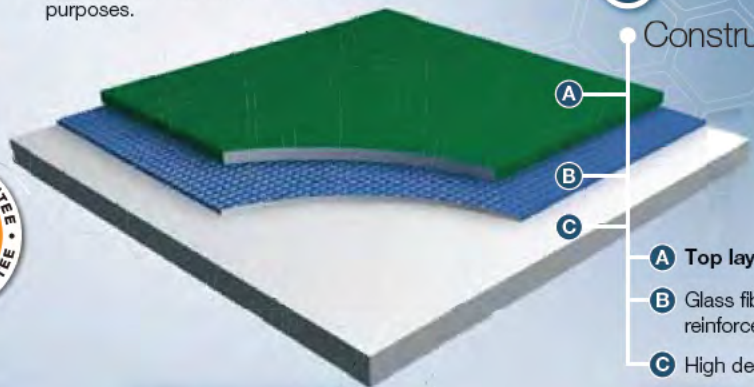
FREE

NOI
WAX



Vinyl floor covering with disinfecting Silver Knight surface, specially developed for fitness halls. Low residual indentation due to its high density foam backing. Hygienic, easy to maintain and durable flooring solution for aerobic and cardio fitness purposes.

Continuous disinfection
>99%
bacteria destroyed



Construction

- A** Top layer
- B** Glass fiber reinforcement
- C** High density foam



3151-378



455-753-179



2519-371



3338-00-279



1286-00-279



2170-00-279



7483-00-279



6170-00-279

AEROBIC

ELITE

Point elastic sport floor covering with double-foam PVC backing – protection for joints and cartilages. TECH Surface top layer with micronised Al₂O₃ and PUR for the durability and cleanability. GraboSAN – antibacterial treatment. Meets the requirement of EN 14904.



by SCS certified

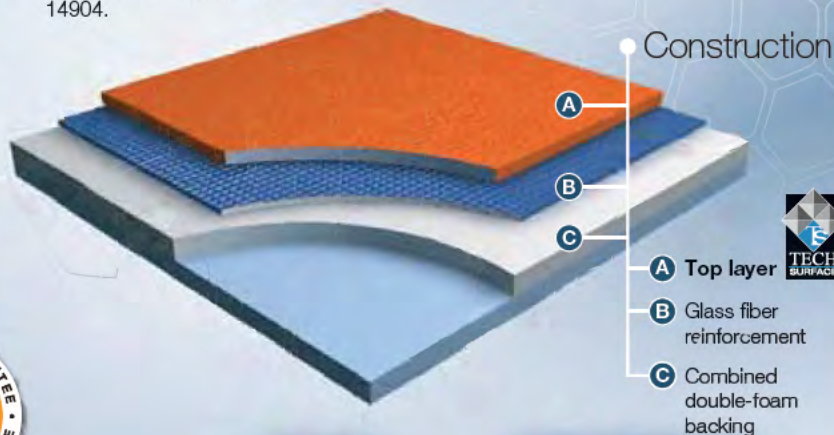


SOLVENT FREE

grabo SAN minimize the growth of microorganisms

NOI WAXI

CDF COMBINED DOUBLE-FOAM



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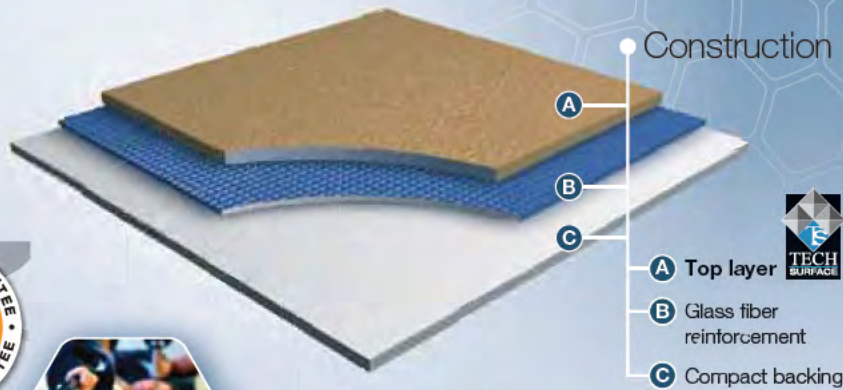
STAMINA

Compact floor covering with fibreglas reinforcement. Protected with TECH Surface – long life expectancy and dirt resistance for easy of maintenancce. Antibacterial treatment.



SOLVENT FREE

grabo SAN minimize the growth of microorganisms
NOI WAX!



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Specifications

Description

		>99% bacteria destroyed	Silver Knight Fitness	Elite	Stamina
Surface	-		Silver Knight	TECH Surface	TECH Surface
Backing	-		Closed cell PVC foam	Closed cell double foam	Compact backing
Thickness	EN 428		5 mm	6 mm	2 mm
Weight	EN 430		3,6 kg/m ²	3,7 kg/m ²	2,8 kg/m ²
Width	EN 426		2 m	2 m	2 m
Standard roll length	EN 426		15 m ± 10%	15 m ± 10%	20 m ± 10%
Maximal roll length	EN 426		25 m	25 m	25 m

Classification

Product specification		EN 651 Vinyl floor covering for indoor sport purposes Meets the requirement of EN 14904 on a sub-construction	Vinyl indoor sport floor EN 14904 (category P1)	EN 649 Vinyl floor covering for indoor sport purposes Meets the requirement of EN 14904 on a sub-construction
Disinfection	ISO 27447	99% bacteria destroyed	-	-
Bacteria resistance	ISO 846	resistant to bacteria	resistant to bacteria	resistant to bacteria
Impact sound insulation	EN ISO717-2	17 dB	21 dB	-
Thermal resistance	-	0,04 m ² K/W	0,06 m ² K/W	0,01 m ² K/W
Reaction to fire	EN 13501	C ₁ -s1	C ₁ -s1	C ₁ -s1
Formaldehyde emission	-	No formaldehyde	No formaldehyde	No formaldehyde
Pentachlorophenol	-	No pentachlorophenol	No pentachlorophenol	No pentachlorophenol

Sport properties

Friction	EN 13036-4	80-110	80-110	80-110
Shock absorption	EN 14808	-	27 %	-
Vertical deformation	EN 14809	-	1,0 mm	-
Ball rebound	EN 12235	99 %	99 %	99 %
Specular gloss	EN 2813	< 30	< 30	< 30

Technical characteristics

Dimensional stability	EN 434	± 0,2 %	± 0,2 %	± 0,2 %
Indentation resistance	EN 1516	0,13 mm	0,44 mm	0,23 mm
Resistance to rolling load	EN 1569	1500 N	1500 N	1500 N
Colour fastness	ISO 105 B02	6	6	6
Chemical resistance	EN 423	no change	no change	no change
Abrasion resistance	EN ISO 5470-1	< 250 mg/1000cycles	< 250 mg/1000cycles	< 250 mg/1000cycles

Recommendation

	AEROBICS		CARDIO TRAININGS	STRENGTH TRAININGS
	body-art, callanetics, kickbox aerobic, pilates, slide yoga, zumba	kangoo, spinning, step-aerobic		
Silver Knight Fitness	☆☆	☆☆	☆☆	
Elite	☆☆	☆☆	—	—
Stamina	—	—	—	☆☆

Product benefits



Our products are made by technological procedures **without using solvents** or heavy metals – less environmental impact



No polish required – reduced maintenance costs and energy consumption



GraboSAN treatment **stops the growth of germs** – reduced risk of contamination in case of injuries



Available in rolls – **easy and quick installation** 200 cm width of roll – less welding



High energy absorption due to the lower foam layer – comfort and protection Optimized deformation shape through the upper foam layer – easy direction change and reduced risk of injury

