

Technical data	EN 426	Extreme 8	Supreme 67	Elite 60	Gymfit 60	Gymfit 44	Gymfit 25	Rocket	
		Extreme Wood 8	Supreme Wood 67	Elite Wood 60	Gymfit Wood 60	Gymfit Wood 44			
Standard length * (lm)	EN 426	15	15	15	15	20	25	15, 20	
Width (m)	EN 426	2	2	2	2	2	2	2	
Thickness (mm)	EN 428	8,0	6,7	6,0	6,0	4,4	2,5	3,8	
Sport standard	P 90203	yes	yes	yes					
Deceleration	NF P 90-104	≤ 102g	67 g	85 g					
Ball rebound (m/s)	NF P 90-104	≥ 0,3	0,47	0,38					
Indentation (mm)	NFT 54 209	≤ 0,5	0,50	0,42					
Sliding	P 90-106	80<G<105	105	103					
Abrasion resistance (g)	NF P 90-102	< 0,8	0,22	0,15					
Brightness	NFT 30-064	< 12	5,4	5,5					
Flammability	NF P 92-512 EN 13501-1 ONORM B 3810 & 3800/1 ISO 3795	M3 Cfl - S1 B1 - Q1 100	M3 Cfl - S1 B1 - Q1 100	M3 Cfl - S1 B1 - Q1 100	M3 Cfl - S1 B1 - Q1	M3 Cfl - S1 B1 - Q1	M3 Cfl - S1 B1 - Q1	Cfl - S1 B1 - Q1	
Dimensional stability (+/-%)	EN 434	0,2	0,2	0,2	0,2	0,2	0,2	0,2	
Colour fastness	ISO 105B02	>6	>6	>6	>6	>6	>6	>6	
Resistance to chemicals	EN 423	no change							

* Other than standard roll lengths are subject to further discussion



The ultimate flooring
the ultimate performance

Extreme 8
Extreme Wood 8
(techn. spec.: GraboSport Xtreme)

Supreme 67
(techn. spec.: GraboSport Supreme)
Supreme Wood 67
(techn. spec.: GraboSport Wood 67)



Competition sport

Anita Görbicz
world wide famous
(No.1 in 2005)
handball player of Graboplast
ETO team and the national
team of Hungary
(please see cover page)

Supreme 67
(techn. spec.:
GraboSport Supreme)

Supreme Wood 67
(techn. spec.: GraboSport Wood 67)

Elite 60
(techn. spec.: Graboflex 256/T Flexy)
Elite Wood 60
(techn. spec.: GraboSport Wood 6)

Rocket
(techn. spec.: GraboSport Rocket)



Universities
City sport halls

Elite 60
(techn. spec.: Graboflex 256/T Flexy)
Elite Wood 60
(techn. spec.: GraboSport Wood 6)

Gymfit 60
(techn. spec.: Graboflex 256/T)

Gymfit 44
(techn. spec.: Graboflex 251/T)
Gymfit Wood 44
(techn. spec.: Graboflex 251/T Wood)

Rocket
(techn. spec.: GraboSport Rocket)



Gymnasiums,
schools,
fitness

Gymfit 44
(techn. spec.: Graboflex 251/T)
Gymfit Wood 44
(techn. spec.: Graboflex 251/T Wood)

Gymfit 25
(techn. spec.: Graboflex 252/T)

Broadway 17
(techn. spec.: Grabolett)

Notex 1000
(techn. spec.: Notex 1000)



Fitness, schools,
home, kindergarten,
dance, shows

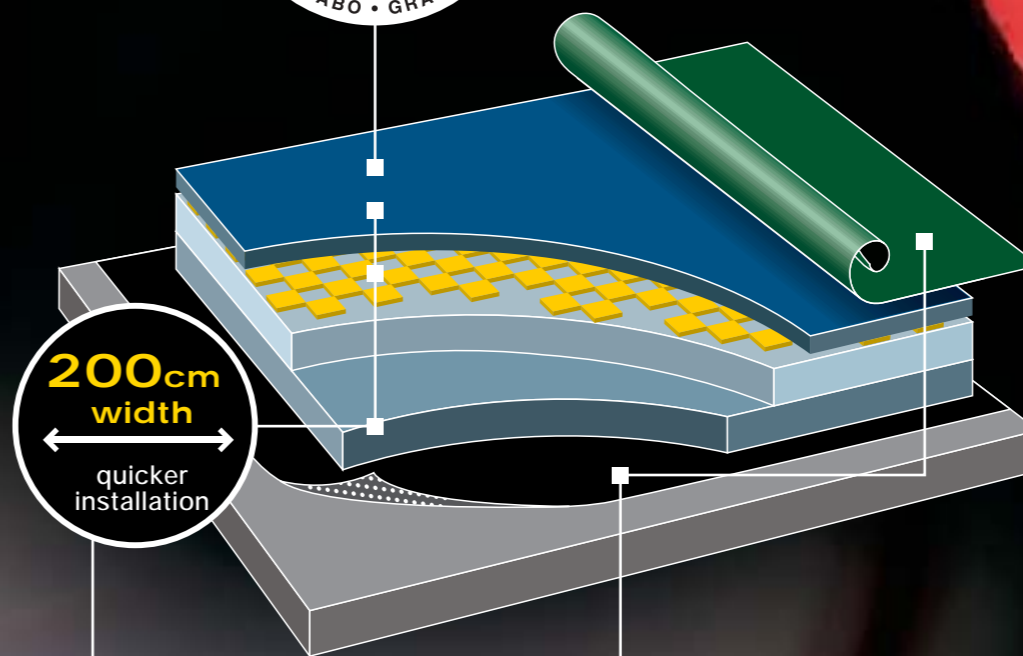
Special CLP System wear layer

A new formula CLP System is a special cross linked polymer system in the cross-section of the wear layer which makes the cleaning easier and increases the life expectancy of floor



SOLVENT FREE

Grabosport floorings are made by technological procedures without using solvents



Compact PVC top layer
(excellent ball rebound)

Glass fibre
(dimensional stability)

PVC closed cell foam
(excellent shock absorption)

Protectsport
Compact PVC protective cover for your sport flooring

grabo Vaporex
Damp proof membrane for sport halls with high humidity



Accessories

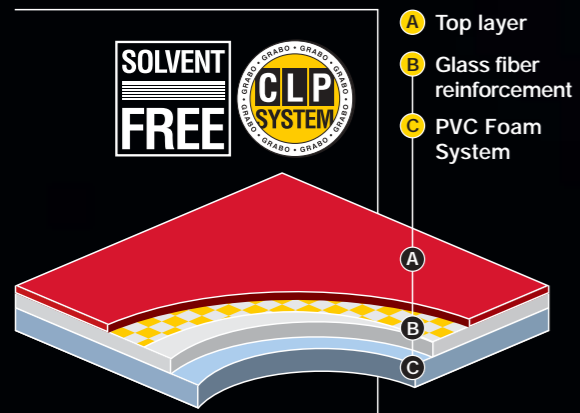
ProtectSport
compact PVC protective cover for sport floorings

graboWeld
welding rods for hot welding of floorings

graboColor
special paint for sports ground lines

graboVaporex
damp proof membrane for sport halls with high humidity

Grabo
Extreme 8



- A Top layer
- B Glass fiber reinforcement
- C PVC Foam System



3328 4269 6160

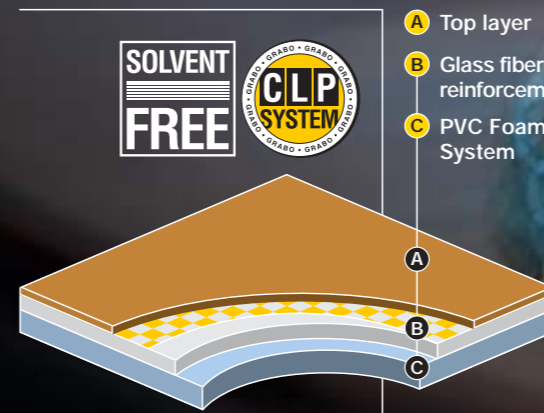


6430 7133 7493

Width of rolls EN426	200 cm
Length of rolls EN426	15 m
Thickness EN428	8,0 mm



Grabo
Extreme Wood 8



- A Top layer
- B Glass fiber reinforcement
- C PVC Foam System



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2209

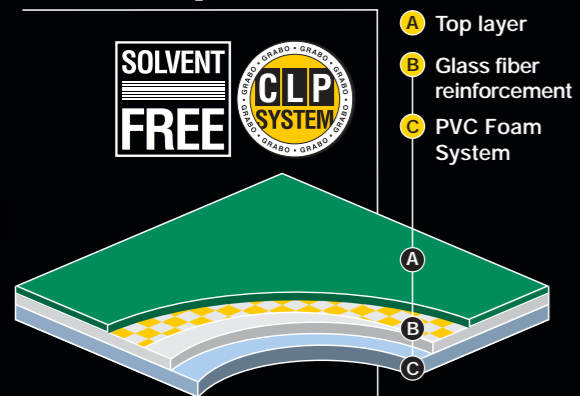


179-469

Width of rolls EN426	200 cm
Length of rolls EN426	15 m
Thickness EN428	8,0 mm



Grabo
Supreme 67



- A Top layer
- B Glass fiber reinforcement
- C PVC Foam System

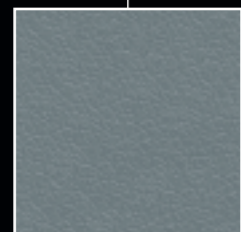


3328 4269 6160



6430 7133 7493

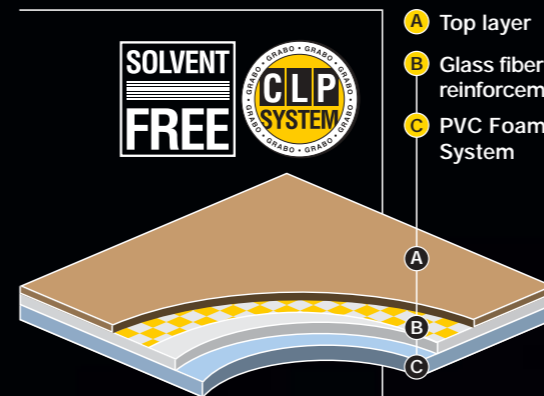
Width of rolls EN426	200 cm
Length of rolls EN426	15 m
Thickness EN428	6,7 mm



1347



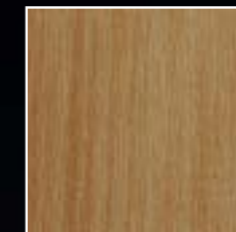
Grabo
Supreme Wood 67



- A Top layer
- B Glass fiber reinforcement
- C PVC Foam System



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2209

Width of rolls EN426	200 cm
Length of rolls EN426	15 m
Thickness EN428	6,7 mm



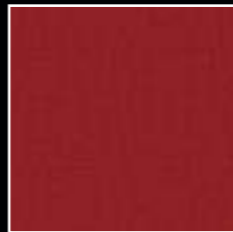
sport floors



Grabo Rocket

Sport flooring specially for badminton and for table tennis

- A Top layer
- B Glass fiber
- C PVC Foam System



4387



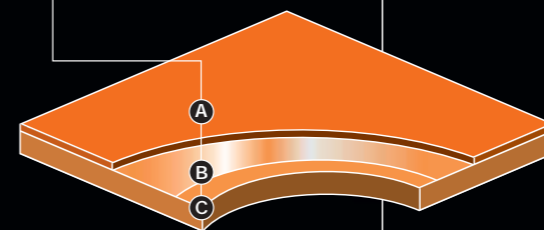
7533

Width of rolls EN426	200 cm
Length of rolls EN426	15, 20 m
Thickness EN428	3,8 mm



Grabo Gymfit 60

- A Top layer
- B Glass fiber reinforcement
- C PVC Foam

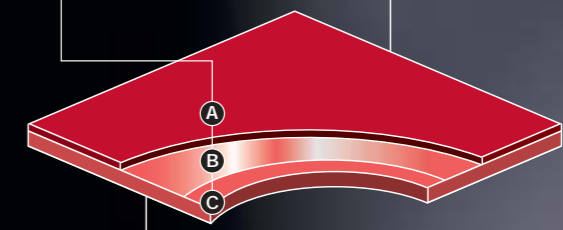


Width of rolls EN426	200 cm
Length of rolls EN426	15 m
Thickness EN428	6,0 mm



Grabo Gymfit 44

- A Top layer
- B Glass fiber reinforcement
- C PVC Foam



Width of rolls EN426	200 cm
Length of rolls EN426	20 m
Thickness EN428	4,4 mm



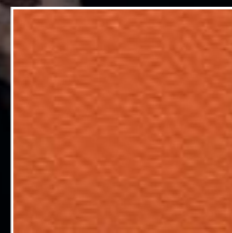
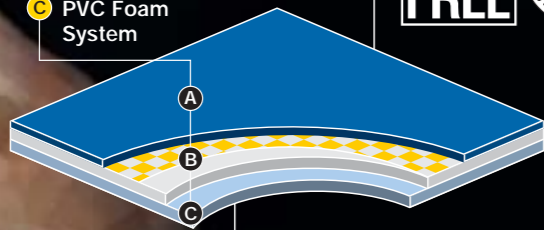
Grabo Gymfit Wood 44



179-469

Grabo Elite 60

- A Top layer
- B Glass fiber reinforcement
- C PVC Foam System



3328



6160

Grabo Elite Wood 60



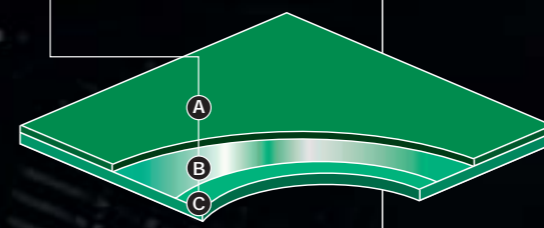
179-469

Width of rolls EN426	200 cm
Length of rolls EN426	20 m
Thickness EN428	6,0 mm



Grabo Gymfit 25

- A Top layer
- B Glass fiber reinforcement
- C PVC Foam



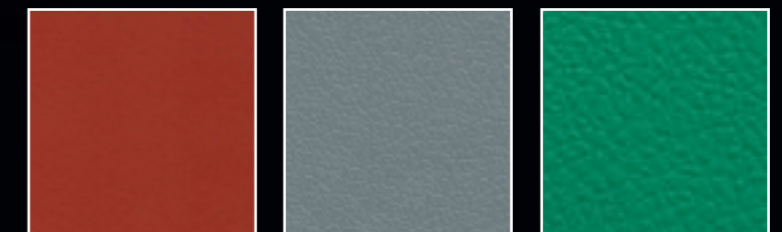
Width of rolls EN426	200 cm
Length of rolls EN426	25 m
Thickness EN428	2,5 mm



Colors of Gymfit



3553 Gymfit 60, 44 4738 Gymfit 44 6161 Gymfit 60, 44, 25



4957 Gymfit 60 1347 Gymfit 44 7522 Gymfit 60, 44, 25

specialities & accessories

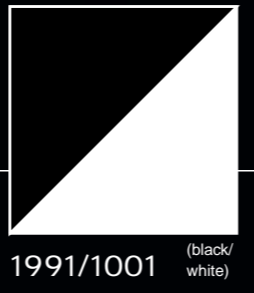
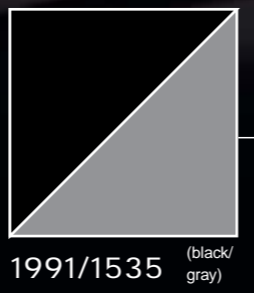
Grabos Broadway 17

Double-sided floor covering for dance, shows, ballet and theatre

- A Top layer
- B Glass fiber reinforcement
- C Second top layer



Width of rolls EN426	200 cm
Length of rolls EN426	15, 20 m
Thickness EN428	1,7 mm



Grabos Vaporex

Damp proof membrane against humidity of basement

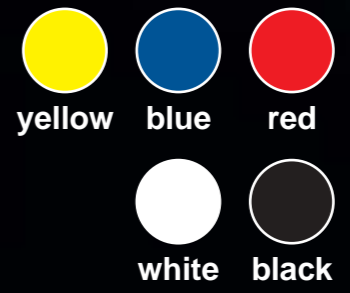


Width of rolls EN426	145 cm
Length of rolls EN426	25, 45 m
Thickness EN428	1,4 mm

Grabos Color

Paints for marking sports ground lines

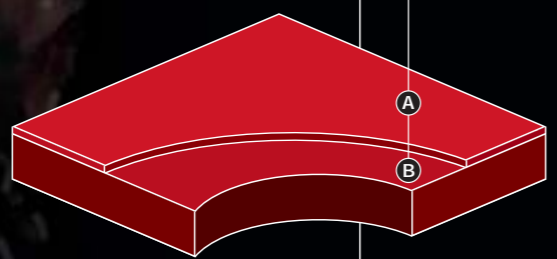
Required quantity:
2,5 kg for 50 m long and 5 cm wide line



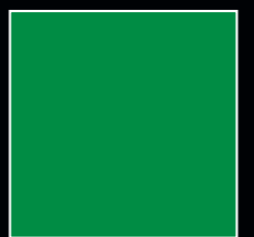
Grabos Notex 1000

PVC foam for sport activities, yoga, rehabilitation

- A Top layer
- B PVC Foam



Width of rolls EN426	142 cm
Length of rolls EN426	20 m
Thickness EN428	10,0 mm

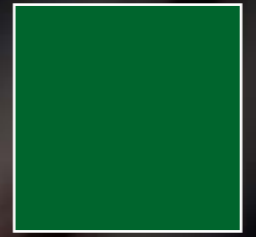
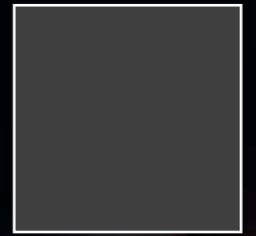


Grabos ProtectSport

Compact PVC protective cover for sport floorings



Width of rolls EN426	140 cm
Length of rolls EN426	25 m
Thickness EN428	1,5 mm



Grabos Weld

Range of welding rods matches to any Grabos Sport color. They guarantee a water proof welding of the grabosSport floorings.

- 3328
- 4269
- 6160
- 6430
- 7133
- 7493
- 3553
- 4738
- 6161
- 7522
- 2066
- 2209
- 1794
- 7533
- 4387
- 1347

Diameter	4,5 mm
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References

GYMFIT 25, GYMFIT 44

Sz.-Györgyi primary school – Győr, Hungary
 Primary school – Győrzámoly, Hungary
 University CVUT – Prague, Czech Republic
 Sports hall Ruzyně – Prague, Czech Republic
 City sports hall – fitness romm- Dubnany, Czech. Rep.
 Hotel Slovan, fitness room – Brno, Czech Republic
 Multifunktional sports hall – Krakow, Poland
 Badminton club – Kosice, Slovakia
 City Sports hall – Velky Krtis, Slovakia
 Aupark Shopping Center – Bratislava, Slovakia
 Municipal Gymnasium – Skidras, Greece
 4 th high school – Larissas, Greece
 Multifunktional sports hall – Tresto-Ospedaletto, Italy
 Sports hall – Treppo Carnico / Italy
 Sports complex – La Fontina / Italy
 G. Galilei gym – Verona / Italy
 City sports hall – Castronuno / Spain
 E. Rojo gym – Madrid / Spain
 Multifunktional sports hall – Moscow/ Russia
 Private fitness club – Moscow/ Russia
 Golf club – Moscow/ Russia
 National Ed. Ministry high school- Düzce/Turkey
 Fitness center – Ankara, Turkey
 MEF Education high school – Izmir, Turkey
 Government Club – Nanjing/ China
 Wuxi Chonming Lu Prim. School – Wuxi/ China
 Sportshall –Wuhan / China
 Gymhall – Xian/ China

GYMFIT 60, ELITE 60, ELITE WOOD 60

Kálvária u. primary school – Győr/ Hungary
 City sports hall – Dunakiliti, Hungary
 Veterinary university – Brno / Czech Republic
 Table tennis hall – Dubnany / Czech Republic
 Hungarian Language School – N. Zámky/ Slovakia
 Elementary schools and gyms – Bucuresti/ Romania
 Industrial secondary school – Oradea/ Romania
 Sports courts – Jawornik/ Poland
 Multifunktional sports hall – Elista/ Russia
 Military sport center – Pleseck/ Russia
 Sport center – Astrachan/ Russia
 Gym of Gymnastic Association – Deskatis/ Greece
 Gym of Athletic Association – Verginas/ Greece
 Aristotelio University's gym – Thessaloniki, Greece
 Municipal gym – Marano / Italy
 Police gymnasium – Tarvisio/ Italy
 Sports Palace – Natisono / Italy
 Sport gymnasium – El Algnian / Spain
 San Antonio Gym – Caceres / Spain
 La Lobilla Sports Complex – Estepona/ Spain
 Fitness club – Pösneck / Germany
 Institut Couzot – Dinant / Belgium
 Military post's gym – Algir, Algeria
 The Waldorf school – Lexington / USA
 Daimler-Chrysler Training Center – Alabama/ USA
 Golf club – Dubai/ UAE
 Jiling Laboratory High School – Chanchun/ China
 Sportshall – Nanjing/China

SUPREME 67, SUPREME WOOD 67

Military police of Furiani – Furiani / Corsika
 Sports hall – Lys le Lannoye / France
 Sports hall – Villejuif / France
 Sports hall – Sucy en Brie/ France
 Salle de sports – Ciney / Belgium
 City sport hall – Hämeenlinna / Finland
 Sports hall – Lappeenranta / Finland
 Sports halls – Novosibirsk / Russia
 Multifunktional sport halls - Moscow / Russia
 Wellesbourne school – Wellesbourne / England
 Development Center – Columbus / USA
 Private gymnasium – Dubai / UAE

EXTREME 8, EXTREME WOOD 8

Elementary school – Pannonhalma / Hungary
 Community Hall – Berente / Hungary
 Elementary school – Brno/ Czech Republic
 City sports hall – Dubnany / Czech Republic
 Elementary school – Bacau / Romania
 Elementary school – Iasi / Romania
 Multifunktional sport hall – Valladolid / Spain
 Villanova sport hall – Barcelona / Spain
 Gymnasium's sport hall – Elda / Spain
 College Basse Wavre – Wavre, Belgium
 Salle de Sports – Grivegnée / Belgium
 KOC High School – Istanbul / Turkey
 Anafen High School – Istanbul / Turkey
 Zonguldak University – Ankara / Turkey
 Scituat Racquet & Fitness – Scituat / USA
 Multi-use gym – Larkmead / England
 Worlds gym – Newnan / USA
 Salle Couverte Ominsport Al Massira - Meknés / Marocco
 Al Murooj Complex – Dubai / United Arab Emirates
 Al Murooj Rotana Hotel – Dubai /UAE
 Abu Dhabi Municipal School / UAE
 Jeddah Medical Centre / Saudi Arabia

BROADWAY 17, BROADWAY 10

State Opera House – Budapest / Hungary
 Hungarian State Television – Budapest / Hungary
 Dance conservatory – Budapest / Hungary
 Ballett Theatre – Győr / Hungary
 Conservatory of dance – Brno / Czech Republic
 Primary school of dance – Brno / Czech Republic
 National Theatre Kosice – Kosice / Slovakia
 Juventa theatre of dance – Bratislava / Slovakia
 Dusko Radovic Theatre – Beograd / Yugoslavia
 National Theatre – Cluj-Napoca / Romania
 Vozrodenie Theatre – St. Petersburg / Russia
 Veranstaltungssaal – Reisenberg / Austria
 Mehrzweckgebäude – Pucking / Austria
 Städtische Bühnen – Osnabrück / Deutschland



Velky Krtis, Slovakia



La Coruna, Spain



Larkmead, England



Meknés, Marocco



Moscow, Russia

Laying and maintenance

SUBFLOOR REQUIREMENTS

The subfloor should be clean, permanently dry, perfectly smooth, free of cracks and anti-adhesion materials. In case of concrete subfloor the moisture content must not exceed 2,5 CM %, in case of anhydride (plaster) 0,5 CM%. Concerning subfloor quality, it is strongly recommended –prior to installation – to make the necessary tests and surveys. It is advisable to have the results filed. The loose cover-layer on the concrete surface should be eliminated by grinding. After dust-proofing, the concrete subfloor should be pre-treated with primer. Application of subfloor levelling should be started only after the primer has completely been absorbed.

LAYING OF FLOORCOVERING

The graboSport floorcoverings should be unrolled and tempered at the place of installation min. 24 hours earlier, at least at 15-18 oC. After the floorcovering has been relaxed, it should be cut with some cms extra on each end. Edges should be fitted and layed to each other perfectly. Before glueing, the layed-out flooring is tucked back halfway. Then the adhesive – starting from the centre – is applied to the subfloor by a toothed spreading plate. In case of absorbent subfloor Graboplast recommends to use water-dispersion adhesives (for example Thomsit UK 400), which are environmentally friendly and unharful to health. In case of non absorbent subfloor it is recommended to use contact adhesives (for example Thomsit K 188 E). Always follow the instructions of the adhesive producer. In the interest of a good adhesion the floorcovering – starting from the center – is smoothed out gently with a hand cork-rubber, being careful not to leave air bubbles. Finally the glued flooring is rolled over. Under temperature of 15oC installation of any Grabo sportsflooring is strongly avoidable. Graboplast will not take any responsibility for claims originating from installation under extreme wheather conditions.

JOINING – with hot welding process

When welding the floorcovering, the joints are milled either manually or by machine in an adequate depth and width and the joint should be cleaned of any residues. We suggest to use GraboWeld welding rod. The hot air should be set at min. 180 oC. The temperature of welding machines should be set between grade 4-5. The welding may be done either with automatic or hand operated equipment. Prior to procedure a trial welding is strongly recommended in order to determine the adequate temperature and speed. After the welding seam has cooled down, the elimination of the surplus rod is done in two steps. First, with the help of a quarter moon shaped knife together with the sliding tool, the rod is cut in half and following the total cooling period the flat cutting is done with the quarter moon shaped knife.

CLEANING & MAINTENANCE

The durability and permanent attractive appearance of the floor covering is influenced greatly by regular cleaning and maintenance. The cleaning frequency depends on the intensity of use, according to specific routines.

We recommend daily cleaning and periodically a basic cleaning in order to maintain the quality of the floor covering.

This guide recommends some detergents, but other brands with similar parameters can be used. Nor cleaning agents and/or solvents which cause damages – e.g. scratches on the surface – neither solvents containing aromatic, alifatic or ester components. It is important to observe the instructions of the manufacturer as well as ask advice from directly, should there any special situation/problem occur.

1.) Basic cleaning

- Removal of solid soiling by sweeping or vacuum-cleaning
- Removal of stubborn, sticky soiling

Tools: - strong alkaline basic cleaner
 - one-disc scrubbing machine,
 - water vacuum cleaner
 (stick scrubber and floor stripper)

A high performance basic detergent is an extremely quick and complete solution of getting rid of residues of deposits. This should be water soluble, contens solvent, tensides, disinfectant, etc.
 Method: spread the solution in an area of 5-10 sq. meters, scrub, rinse, then wipe off with plenty of clean water and rinse again (neutralising).
 The frequency of basic care depends on the intensity of use. Recommended period: 1/2-1 year.

2.) Daily cleaning (manual)

- Removal of solid soiling with sweeping or vacuum-cleaning
- Wet cleaning, which can be made manually or by machine

Manual wet cleaning: For daily cleaning a mop, a mop-holder and detergent are required. There can be used anionic or non-ionic, alcoholic tenside, which preserves the original shine of the surface excellently and dries quickly, without leaving stripes or causing haziness. Cleaning should be made by two-can-technology.

Daily cleaning by machine

For daily care of the sport flooring, a pusher- or driver-type automatic cleaning machine can be used. It is recommended to use detergent, containing non-ionic or cationic surfactants to ensure excellent cleaning performance and to preserve the original slip properties.

Recommended detergents:

Manufacturer / Product name	Werner&Mertz GmbH / TANA	Dr. Schutz
Basic cleaning	Quick-Stripper, pH 13-14, dilution rate: 5-10 %	CC Grundreiniger R dilution rate: 10%
Daily cleaning manual	SR 13 dilution rate: 0,5 %	CC R 1000 dilution rate: 0,3-0,5%
Daily cleaning machine	Innomat dilution rate: 0,3-0,5%	CC R 1000 dilution rate: 0,3-0,5%

