KDF

Sports Flooring Systems & Building Materials

QUICKLAWN SANDPROOF SYSTEM with EPDM

PLAYGROUND FLOORINGS

www.kdf.gr

KDF LTD (www.kdf.gr) is one of the most dynamic and export-oriented Greek companies (currently activated in more than 55 countries in 4 continents), based in Greece(EU) and U.A.E too, with production facilities and warehouses in both countries for acrylic and polyurethane materials.

We are experts in sports, industrial and decorative flooring products and systems, with huge experience in Europe, Africa, Asia, Middle East and India as well.

Our export horizon is expanding rapidly and our goal is to stand out as a model of flexibility and competitiveness. The company, being one of the pioneer companies in the sector of sports flooring systems and building materials and giving particular attention to providing a fully upgraded range of products and services, provides certified systems by **ITF, IAAF, EU norms, LNE, LABOSPORT, ISASPORT, to name but a few.**

Our systems are approved in many ministries like:

-Ministry of Education in U.A.E
-Ministry of Education in K.S.A
-Ministry of Education in Oman
-Ministry of Education in Kuwait and many other institutes like
-Oman Royal Police
-Aramco, K.S.A
-Musanada in U.A.E
-Municipality of Doha
-Municipality of Dubai, Abu Dhabi, Sharjah and many others institutions.

KDF goes far beyond trade, providing consultancy in marketing and also technical support all the way, from the costing till the finalization of the project. Operating under the requirements of ISO 9001/2015 for production, trade and also application, we make sure our products are first applied successfully at site by our own people before we launch them abroad.

Therefore, our systems have all stood the real life test in different climates, from Middle East till Russia, and this is one of our main assets, enabling us to provide full and vertical technical support from specifying to final application plus supervision when required or even full application and costing.

We invite you to discover a world of sports flooring expertise and solutions.

VIEW OUR NEW SPORTS CATALOGUE

KDF - Kataskeves Dapedon LTD
e : exports@kdf.gr
w : www.kdf.gr

1 Papanikolaou Ave, Pefka
57010, Thessaloniki, Greece
t / f : 0030 2310 829598

INDICATIVE REFERENCE LIST OF PROJECTS

-12 SCHOOLS IN U.A.E, MINISTRY OF EDUCATION(THROUGH VARIOUS CONTRACTORS) - 40000m² EPDM Rubber flooring

-UNIVERSITY OF DAMMAM - KSA - 13000m² - Acrylic cushion floorings

-KING ABDULLAH BASE AIR DEFENSE - TAIF, KSA - 12600 m² - Running track

-KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS-DHARAN, KSA-12400m²-Rubber outdoor flooring

-RUNNING TRACK - K.S.A- 11000 m² - Running track, POLTRACK SANDWICH system

-GEMS SCHOOL - DUBAI, U.A.E - 10000 m² - Running track

-PASARGRAD WHOLESALE MARKET-IRAN - 10000 m² - Decorative flooring

-YAS ISLAND, ABU DHABI, U.A.E - 10000m^{2,} Bicycle track

-ABHA STADIUM - K.S.A - 9000m^{2,} - POLTRACK SANDWICH system

-ABU DHABI STADIUM - U.A.E - 9000m^{2,} - Artificial Grass, POLITURF LEADER 55140

-ALEXANDRIA STADIUM - ALEXANDRIA, EGYPT - 8500 m² - Running track

-MINISTRY OF EDUCATION IN KUWAIT - KUWAIT - 8000m^{2} - Polyurethane flooring, Polyflex Pu-In system

-SALAM STREET & MINA ROAD, ABU DHABI, U.A.E - 8000m^{2} Bicycle track, Sportground-Ex system

-KING FAHAD NAVAL BASE - JUBAIL, KSA - 8000m² - Running track

-MUNICIPALITY OF VELVENTO - KOZANI, GREECE - 8000m^{2}, Running track

-ABBHA, KSA - 7600m² - Running track

-MUNICIPALITY OF ZENICA - ZENICA, BOSNIA& HERZEGOVINA - 7500m^{2}, Poltrack Spraycoat, Running track

-ADNOC SCHOOLS - U.A.E - 7000m^{2} - Safepol system

-ATLAS CENTER-BAM, IRAN - 7000 m² - Decorative flooring

-RUNNING TRACK - SUDAN - 7000 m² - Running track, POLTRACK SPRAYCOAT system

-CORNISH, JEDDAH, K.S.A - 6000m^{2} Bicycle track Sportground-Ex system

-YOKOGAWA ELECTRIC CORPORATION-DHAHRAN TECHNO VALLEY-DAMMAM, KSA - 5500m²- Epoxy antistatic floorings

-AMITY INTERNATIONAL SCHOOL - ABHU DHABI, U.A.E - 5500m^{2}, Poltrack Spraycoat, Running Track

-SHUQAIQ WATER AND ELECTRICITY COMPANY - JIZAN, KSA - 5400 m² - acrylic courts

-TALEEM UPTOWN SCHOOLS - DUBAI, UAE - 5400m²-Acrylic sports courts systems

-SAUDI AIR FORCE - KSA - 5250 m² - Acrylic coating elastoturf, running track

-RUNNING TRACK - K.S.A - 5000 m² - Running track, POLTRACK SANDWICH system

-AL HAMRA, RAS AL KHAIMAH, U.A.E - 5000m^{2} Bicycle track, Sportground-Ex system

-AIRBASE IN TAIF - KSA - 5000 m² - Running track

-DEPARTMENT OF EDUCATION ASIR REGION - KHAMIS, KSA - 4500 m² - Running track

-SERVIA STADIUM - KOZANI, GREECE - 4500m^{2}, Running track

-COMMUNITY COLLEGE - KHAMIS, KSA - 4200 m² - Running track

-MULTIPLE RUNNING TRACKS - ALGERIA - 40000 m² - Running track, POLTRACK SPRAYCOAT system

-SPORTS CLUB CENTER GLIFADA - ATHENS, GREECE - 4000m^{2}- Poltrack Spraycoat, Running Track

-EMIRATES INTERNATIONAL SCHOOL - DUBAI, U.A.E - 4000m^{2} - Safepol System, Playground flooring

-HH KHALID BIN BANDAR - RIYADH, KSA - 3800 m² - Volleyball/basketball rubber courts

-RUNNING TRACK- UKRAINE - 3600m^{2} - RunningTrack, Poltrack Spraycoat system

-ANATOLIA GOLLEGE - THESSALONIKI, GREECE - 3600m^{2}, Running track

-AIMARJAN ASLAND – PARTIAL - 3600m^{2}- Poltrack Sandwich, Running Track

-RUNNING TRACK - ISRAEL - 3500 m² - Running track, POLTRACK SANDWICH system

-MATRIX SPORTING CLUB - EGYPT - 3400 m² - Polyurethane outdoor flooring, Polyflex PU-EX System

-SPORTS CLUB CENTER KISSAMOS - CRETE, GREECE - 3200m^2- Poltrack Sandwich, Running Track

-AL LUSAIL SPORTS CLUB - DOHA, QATAR - 3200m² - Jogging track

-SPORTS CLUB CENTER - SERVIA, GREECE - 3200m^2 - Poltrack Sandwich, Running Track

-STADIUM CENTER - UKRAINE - 3200m^2- RunningTrack, Poltrack Spraycoat system

-KING KHALID UNIVERSITY - ABHA, KSA - 3100 m² - Running track

-AL FAIOUM UNIVERSITY - FAIOUM, EGYPT - 3000m^2- Polyurethane indoor flooring, Polyflex PU-IN system

-SPORTS CLUB CENTER ‘’PAPAGOU’’ - ATHENS, GREECE - 3000m^2- Poltrack Sandwich, Running Track

-PANORAMA SPORTS COMPLEX - THESSALONIKI, GREECE - 3000m^2, Running track

-INDIAN ARMY - SAGAR, INDIA - 2800m^2- Acrylic sports courts

-ALL SAINTS SCHOOL - MUMBAI, INDIA - 2700 m² - PU outdoor sports flooring and running track

-INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH-BHOPAL, INDIA-2700m^2-Acrylic sports courts

-OUR OWN GOLF SCHOOL - 2700m^2- Poltrack Spraycoat, RunningTrack

-AL RAYAN, QATAR - 2500 m² - Running track, POLTRACK SANDWICH system

-OUTDOOR SPORTS VENUE - VARNA, BULGARIA - 2500 m² - Acrylic, ITF classified, 8 layers system

-ALHOSN SPORTS COMPLEX - 2400 m² - Running track, POLTRACK SANDWICH system

-TEACHERS COLLEGE - ABHA, KSA - 2050 m² - Running track

-MUSAB BIN OMAIR BOYS SCHOOL - BIN OMRAN, QATAR - 2050 m² - PU outdoor sport flooring

-BURAIRAT SCHOOL - RAK, UAE - 2000 m² - Running track

-HADAYEK ALAHRAM CLUB - GIZA, EGYPT - 2000m2, PU outdoor sports flooring, POLYFLEX PU-EX WET-POUR system

-AL SAILIYA BOYS SCHOOL - AL SAILIYA, QATAR - 2000 m² - Polyurethane, outdoor sport flooring

-KING KHALID UNIVERSITY - ABHA, KSA - 2000 m² - Volleyball/basketball rubber courts

-HH KHALID BIN BANDAR - RIYADH, KSA - 2000 m² - Volleyball/basketball rubber courts

-RAWDA RASHEED PRIMARY SCHOOL FOR BOYS - 2000 m²

-DAMIETTA GOVERMENT - EGYPT - 2000m^2 - Running track, Poltrack Spraycoat Sealed System

-AL WAKAIR BOYS SCHOOL - AL WAKRAH, QATAR - 1950 m² - Polyurethane, outdoor sport flooring

-THE LAKE DISTRICT - PUNE, INDIA - 1950m^2- Acrylic sports courts

-PRESIDENTIAL GUARD COMMANDM MAHAWI - ABU DHABI, UAE - 1900m² - Football court

-UNITED (SABIC) SPORTS CLUB - 1900 m² - Rubber flooring

-SHOOLS MINISTRY OF EDUCATION - KHAMIS, KSA - 1800 m² - Rubber floorin

-AL MAJAD AMPHITHEATER - SHARJA, UAE - 1800m² - Certified Jogging track

-QASSIM UNIVERSITY - KSA - 1800 m² - Polyurethane sports flooring

-AL QADSIYA MODEL INDEPENDENT SCHOOL - ALWAAB, QATAR - 1770 m² - PU outdoor sport flooring

-AL WAHDA SPORT ACADEMY CLUB - ABU DHABI, UAE - 1700 m² - Acrylic sports system

-ALSARH SCOOLS OF CIVIL - RIYADH, KSA - 1650m² - PU glue/Socccer field

-GD GOENKA PUBLIC SCHOLL - PURNIA, INDIA - 1630m^2- Acrylic sports courts

-**SPA RESORT DERENIVSKUPIA KI - UZHGOROD, UKRAINE** - 1600 m² - Flexfloor-ex system, volleyball court

-THE MILITARY HOSPITAL - RIYADH, KSA - 1560 m² - Volleyball/basketball rubber courts

-THE MILITARY HOSPITAL - RIYADH, KSA - 1560 m² - Pu glue-PU sports flooring

-AL FORSHAN SPORTS CENTRE - ABU DHABI, U.A.E - 1500m^2 - Smartfloor system, Acrylic flooring

-INDUSTRIAL FLOORING - BULGARIA - 1500m^2 - Epoxy flooring, Polepox Coat 814 system

-SCHOOL IN AL WAKRA CITY - DOHA, QATAR - 1500 m² - Playground flooring

-IRAQ ARMY CAMP - IRAQ - 1500m^2 - Acrylic flooring in 2,2mm

-SCHOOL IN AL WAKRA CITY - DOHA, QATAR - 1500 m² - Playground flooring

-PROJECT GREEN LAND - DUBAI, UAE - 1500 m² - Jogging track

-UP TOWN SCHOOL - 1500m^2- Poltrack Spraycoat, RunningTrack

-INDIAN AIR FORCE - ALLAHABAD, INDIA - 1450m^2 - Acrylic sports courts

-DUBAI MODERN HIGH SCHOOL - DUBAI, UAE - 1375 m² - Acrylic sports courts

-PROJECT ECOGREEN - DUBAI, UAE - 1350 m² - Jogging track

-POLICE COMPLEX BARRACKS NIZWA - OMAN- 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS AL AJAIZ - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS KATMATMILAH SITE - OMAN- 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS SUWAIQ - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS AL KAMIL - OMAN - 1300 m² - Colorflex, PU sport flooring

-PLAYGROUND FLOORING - BAHRAIN - 1300m^2 - Safepol system

-POLICE COMPLEX BARRACKS SHINAS - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS BHALA - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS MUDHAIBI - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS THUMRAIT - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS AL KHOUDH - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS MAHDAH - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS BID BID - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS AL KHABOORA - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS DHANK - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS HAFEET - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS AUQAD - OMAN - 1300 m² - Colorflex, PU sport flooring

-POLICE COMPLEX BARRACKS SUMAIL - OMAN - 1300 m² - Colorflex, PU sport floor

-OUTDOOR SPORTS VENUE - KOSOVO - 1300 m² - POLTRACK SPRAYCOAT System

-ALHALAFI BREAK - RIYADH, KSA - 1276 m² - Rubber flooring

-GI-DHOFAR BEACH RESORT & SPA - OMAN - 1225 m² - Colorflex, PU sport flooring

-RLS BASIC EDUCATION SCHOOL SOHAR - OMAN - 1225 m² - Colorflex, PU sport flooring

-MIXED BASIC EDUCATION SCHOOL AL QABIL - OMAN - 1225 m² - Colorflex, PU sport flooring

-BOYS BASIC EDUCATION SCHOOL BARKHA - OMAN - 1225 m² - Colorflex, PU sport flooring

-GIRLS BASIC EDUCATION SCHOOL MUDHAIBI - OMAN - 1225 m² - Colorflex, PU sport flooring

-MIXED BASIC EDUCATION SCHOOL AL AMERAT - OMAN - 1225 m² - Colorflex, PU sport flooring

-UMSALAMA GIRLS SCHOOL - AL RAYYAN, QATAR - 1200 m² - Polyurethane, outdoor sport flooring

-SHERATON PARK - DOHA, QATAR - 1200 m² - Playground flooring

-RAWDA BIN JASSIM SCHOOL - AL AZIZIYAH, QATAR - 1200 m² - Polyurethane, outdoor sport flooring

-GEMS WESTMINISTER SCHOOL - DUBAI, U.A.E - 1200 m² - Acrylic sports courts

-SILVER SPORTS CLUB - INDIA - 1200m^2- Acrylic sports courts

-OUR OWN SCHOOL - SHARJA, U.A.E - 1200m² - Acrylic sports courts

-SHARJAH FOOTBALL CLUB - SHARJAH, UAE - 1200 m² - Polyurethane basketball courtsing

-MATRIX SPORTING CLUB - EGYPT - 1300 m² - Acrylic flooring, Flexfloor System

-SHERATON PARK - DOHA, QATAR - 1200 m² - Playground flooring

-SYMBIOSIS COLLEGE - INDIA - 1180m^2- Acrylic sports courts

-PROFESSOR ABDULAZIZ ANQARI - RIYADH, KSA -1150m² - PU glue/Socccer field

-AL SAQID ISLAMIC ENGLISH SHCOLL-DUBAI,UAE-1100m²- Acrylic flooring, WET-POUR POLYFLEX AEL-EX

-FIRST POINT SCHOOLS - DUBAI, UAE - 1100m² - Acrylic sports courts

-MAADI BRITISH SCHOOL- EGYPT - 1100m2, Multipurpose court, COLORFLEX system

-DUBAI AMERICAN ACADEMY - DUBAI, UAE - 1080 m² - Acrylic sports court

-PRELUDE PUBLIC SCHOOL - AGRA, INDIA - 1070m²- Acrylic sports courts

-ALMGBAL BREAK - RIYADH, KSA - 1050 m² - Rubber playground

-BANIYAS CLUB AND AL AIN ENGLISH SPEAKING SCHOOL - ABU DHABI, UAE - 1000m² - Acrylic flooring

-WADY DEGLA LOTUS PROJECT - CAIRO, EGYPT- 1000 m² - Acrylic flooring, Wet-Pour Polyflex AEL-EX system.

-MINISTRY OF EDUCATION - DAMMAM, KSA - 1000 m² - PU indoor multipurpose sports flooring

-SHEIKH OBEID MAKTHOUM PALACE - 1000m² - Outdoor polyurethane flooring

-INDIAN AIR FORCE - AGRA, INDIA - 1000m² - Acrylic sports courts

-INDIAN AIR FORCE - LUCKNOW, INDIA - 1000m² - Acrylic sports courts

-MULTIPURPOSE POLYURTEHANE INDOOR COURTS - F.Y.R.O.M - 1000m² - Polyflex PU-In system

-SODIC PROJECT - EGYPT - 1000m2, Multipurpose court, COLORFLEX system

-INDIAN AIR FORCE - VARANASI, INDIA - 1000m² - Acrylic sports courts

-INTERNATIONAL SCHOOL OF CREATIVE SCHIENCE - SHARJAH, U.A.E - 1000m² - Safepol System

-INDIAN AIR FORCE - BIHTA, INDIA - 1000m² - Acrylic sports courts

-INDIAN AIR FORCE - DARBHANGA, INDIA - 1000m² - Acrylic sports courts

-AL AIN INDIAN SCHOOL - AL AIN, UAE - 1000m² - Football court

-DUBAI SCHOLRAS PRIVATE SCHOOL - DUBAI, U.A.E - 1000m² - Acrylic flooring in 2,2mm

-COMMUNITY COLLEGE - KHAMIS, KSA - 940 m² - Polyurethane indoor multipurpose sports flooring

-**GEMS METROPOLE SCHOOL - DUBAI, U.A.E** - 900 m² - Playground flooring

-MINISTRY OF EDUCATION - ABHA, KSA - 900 m² - Polyurethane indoor multipurpose sports flooring

-BAB AL SHAMS SPA HOTEL - DUBAI, UAE - 900m² - Football court

-KING KHALID UNIVERSITY - ABHA, KSA - 820 m² - Polyurethane indoor multipurpose sports flooring

-SCHOOL IN AL WAKRA CITY - DOHA, QATAR - 800m² - Polyurethane sports flooring

-SULTAN MANOR - RIYADH, KSA - 800 m² - Polyurethane multipurpose sports flooring

-MINISTRY OF EDUCATION - AL KHARIZ, KSA - 800 m² - PU indoor multipurpose sports flooring

-INDOOR SPORTS COURT - MALAYSIA - 800 m² - PU indoor sports flooring

-KID'S PLAY AREA IN MALL - MOROCCO - 800 m² - PU indoor sports flooring, POLYFLEX PU-IN system

-DUBAI ENGLISH SPEAKING COLLEGE - DUBAI, UAE - 783m² - Acrylic flooring, SPORTFLOOR-EX, HARD COURT

-SINGAPORE AIRLINES - SINGAPORE - 735m² - PU indoor sports flooring

-AL DAJAN COMPANY - GASIM, KSA - 722 m² - Polyurethane sports flooring/Tennis court

-SELECTIVE GOVERNMENT HIGH SCHOOL - EGYPT - 720m2, Outdoor sports flooring

-INDIAN AIR FORCE - AHMEDABAD, INDIA - 720m²- Acrylic sports courts

-FITNESS TIME - FAYSALIA, DAMMAM, KSA - 700 m²-PU indoor multipurpose sports flooring/running track

-FITNESS TIME YASMEEN - RIYADH, KSA - 700 m² - PU indoor multipurpose sports flooring/running track

-FERRARI WORLD - ABU DHABI, UAE - 700m2 - Playground flooring

-FITNESS TIME JUNIOR - RIYADH, KSA - 700 m² - PU indoor multipurpose sports flooring/running track

-FITNESS TIME - OLAYA RIYADH, KSA - 700 m² - PU indoor multipurpose sports flooring/ running track

-FITNESS TIME WAHA - RIYADH, KSA - 700 m² - PU indoor multipurpose sports flooring/running track

-FITNESS TIME, NOOR BRANCH - DAMMAM, KSA -700 m² - PU indoor sports flooring and running track

-FITNESS TIME, ALAMEEN BRANCH - DAMMAM, KSA - 700 m² - PU indoor sports flooring and running track

-FITNESS TIME, PLUS RIYADH - RIYADH, KSA - 700 m² - PU indoor sports flooring and running track

-FITNESS TIME, SALAMA BRANCH BRO & FITNESS - JEDDAH, KSA - 700 m² - PU indoor sports flooring

-FITNESS TIME, 40th BRANCH - JEDDAH, KSA - 700 m² - PU indoor sports flooring and running track

-NASR CLUB- EGYPT - 700m2, Multipurpose court, POLYFLEX WET-POUR system

-HUREL DOUBLE 3 - RAS AL KHAIMH, KSA - 700 m² - Shockpad plus acrylic coatings

-THE SUSTAINABLE CITY - DUBAI, U.A.E - 700 m² - Acrylic flooring

-EMAAR - EMIRATES HILLS 2 - DUBAI, U.A.E - 700m^2 - Basketball court, Acrylic flooring

-AIRFORCE SURBOTO PARK - NEW DELHI, INDIA - 680 m² - Polyurethane outdoor sports flooring

-INDIAN ARMY - DHRANGDHARA, INDIA - 670m^2 - Acrylic sports courts

-MT.SAINT PATRICK ACADEMY - INDIA - 665m^2- Acrylic sports courts

-REGIONAL HQ AT BURAIMI - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE RUSTAQ - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE LIWA - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE AL SALIL - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE IBRI - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE IBRA - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE AL SUR - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE AL DUKUM - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE AL BURAIMI - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE AL NIZWA - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE AL SUWAIQ - OMAN - 650 m² - Colorflex, PU sport flooring

-ABU DHABI MUNICIPALITY - ABU DHABI , UAE - 650 m² - Acrylic flooring

-ROYAL OMAN POLICE TASK FORCE AL SALALAH - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE AL BARKHA - OMAN - 650 m² - Colorflex, PU sport flooring

-ROYAL OMAN POLICE TASK FORCE KHOUDH - OMAN - 650 m² - Colorflex, PU sport flooring

-MULTIPURPOSE COURTS - TIRANA, ALBANIA - 650 m² - Acrylic sports flooring, FLEXFLOOR system

-MOHAMMED JASSIM M AL THANI SCHOOL - UMSALALALI, QATAR - 620 m² - PU outdoor sport flooring

-QATAR GEMS SCHOOL - DOHA, QATAR - 615 m² - Polyurethane sports flooring

-VAISHNO DEVI - DELHI, INDIA - 608 m² - Polyurethane outdoor sports flooring

-INDIAN ARMY - AGRA, INDIA - 600m^2- Acrylic sports courts

-THE INTERNATIONAL SCHOOL - AGRA, INDIA - 600m^2- Acrylic sports courts

-INDIAN ARMY - JHANSI, INDIA - 600m^2- Acrylic sports courts

-THE SUSTAINABLE CITY - DUBAI, U.A.E - 600 m² - Safepol system

-AMITY SCHOOL, JUMEIRAH ISLAND - DUBAI, UAE - 600 m² - Safepol system

-OUR OWN ENGLISH HIGH SCHOOL - SHARJAH, U.A.E - 600 m² - Flexfloor system

-OUR OWN ENGLISH HIGH SCHOOL - SHARJAH, U.A.E - 600 m² - Polyflex Ael-EX system

-SKATING FOR KIDS - GUJARAT, INDIA - 600 m² - Sportfloor system

-NEW DUBAI BRADENTON SCHOOL- DUBAI, UAE - 570 m² - Acrylic sports courts

-DUBAI SILICON OSIS-CENTRAL PARK, DSO - DUBAI, UAE - 560 m² - Jogging track

-MPS WORLD SCHOOL - AGRA, INDIA - 560m^2- Acrylic sports courts

-AL WUKAIR GIRLS SCHOOL - AL WAKRAH, QATAR - 550 m² - Polyurethane, outdoor sport flooring

-BBPS - DELHI, INDIA - 512 m² - Polyurethane outdoor sports flooring

-IVY STATE - PUNE, INDIA - 511m^2- Acrylic sports courts

-KUNAL ICONIA - INDIA - 510m^2- Acrylic sports courts

-AMERICAN SCHOOL OF DUBAI - DUBAI, UAE - Acrylic sports courts

-ETIHAD MUSEUM - JUMEIRAH, DUBAI, UAE - Rubber flooring

-CARPARKING - ABU DHABI, UAE - Acrylic flooring

-DUBAI MILLENIUM SCHOOL - QUSAIS, UAE - Acrylic sports courts

-AMERICAN UNIVERSITY - DUBAI, UAE – Acrylic outdoor sports flooring

-RAK ACADEMY - RAK, UAE - Acrylic flooring

-ISCS - SHARJA, UAE - Acrylic flooring

-THE INTERNATIONAL SCHOOL OF CHOUEIFAT - AJMAN, U.A.E - Sportground-Ex system

-THE KINDER GARDEN STARTERS - DUBAI, U.A.E - Safepol system

-AL ZAHIA PROJECT - SHARJA, UAE - Safepol system

-WADY DEGLA SHERATON CLUB - CAIRO, EGYPT - Acrylic sports flooring

-GEMS WELLINGTON SCHOOL - DUBAI, U.A.E - Safepol system

-JUMEIRAH RETAIL DEVELOPMENT - JUMEIRAH, DUBAI, UAE - Safety rubber flooring

-MR.ABDULRHMIN - JUBAIL, KSA - Rubber playground

-GEMS WESTMINISTER SCHOOL - DUBAI, U.A.E - Safepol system

-POLYURETHANE INDOOR SPORTS COURT - TIRANA, ALBANIA - Polyflex PU-In system

-MULTIPURPOSE COURTS - ODESSA, UKRAINE - Rubber flooring

-MULTIPURPOSE COURTS - ZHOVKVA, UKRAINE - Rubber flooring

-MUNICIPAL TENNIS CLUB - PATRA, GREECE - Flexfloor-EX system, Acrylic sports courts

-INDIAN AIR FORCE - GORAKHPUR, INDIA - Acrylic sports courts

-INDIAN AIR FORCE - BAREILLY, INDIA - Acrylic sports courts

-INDIAN ARMY - BABINA, INDIA - Acrylic sports courts

-ADAM AIRBASE PACKAGE 8, OMAN - Colorflex, PU sport flooring

-GOLD GYM - KOLKATTA, INDIA - Polyurethane indoor sports flooring

-MINISTRY OF FOREIGN AFFAIRS - ABU DHABI, UAE - Polyurethane flooring

-SHRJAH SPORTS CLUB - SHARJAH, UAE - Polyurethane flooring

-GEMS WINCHESTER SCHOOL - AL BARSHA SOUTH, UAE - Acrylic sports system

-HOTEL DOUBLE 3 - RAS AL KHAIMAH, UAE - Prefabricated shock-pad 4mm plus acrylic coatings

-ALNABBAGH STABLE - AL AIN, U.A.E - Polyurethane flooring, POLTRACK EQUESTRIAN FLOORING

-AL WAHDA CLUB - ABU DHABI, UAE - Rubber flooring

-ADJD MAIN BUILDING LANDSCAPE PROJECT - ABU DHABI, UAE - Rubber flooring

-KADEEJ AL KURBA SCHOOL - ABU DHABI, UAE - Rubber flooring

-**INTERNATIONAL SCHOOL OF CREATIVE SCIENCE - SHARJA, U.A.E** - Flexfloor system/Outdoor Multipurpose court

-**ENVIRO, VATIKA HOTELS PVT.LTD - GURGAON, INDIA -** Acrylic sports flooring

-ASHIANA - BHUBANESHWAR, INDIA - Acrylic sports flooring

-**TCS, ADIBATLA - HYDERABAD, INDIA -** Acrylic sports flooring

-**IPS, ERODE - CHENNAI, INDIA -** Acrylic sports flooring

-LIONS GATE - MUMBAI, INDIA - Acrylic sports flooring

-**MORNING GLORY INFRA LIMITED - KANPUR, INDIA -** Acrylic sports flooring

-NAMBIAR - BANGALORE, INDIA - Acrylic sports flooring

-**PATHWAYS - GURGAON, INDIA -** Acrylic sports flooring

-**WELHAMS GIRLS SCHOOL - DEHRADUN, INDIA -** Acrylic sports flooring

-WOODDUCK COMMERCIAL CENTER- IRAN - Industrial flooring

-ARABIAN RANCHES by EMAR - DUBAI, U.A.E - Playground flooring

-OUR OWN ENGLISH HIGH SCHOOL - SHARJAH, U.A.E - Playground flooring
-POLO CLUB GHANTOOT - ABU DHABI, U.A.E - Polyurethane flooring, POLTRACK EQUESTRIAN FLOORING
-RAK MODERN SCHOOL - RAS AL KHAIMAH, U.A.E - Playground flooring
-GIIS/GLOBAL INDIAN INTERNATIONAL SCHOOL - RAS AL KHAIMAH, U.A.E - Playground flooring
-MINISTRY OF EDUCATION, NAD AL HAMAR BOYS SCHOOL - DUBAI, U.A.E - Playground flooring
-K.G. KIDS SCHOOL - AALI, BAHRAIN - Playground flooring
-SABIC BEACH CAMPS PROJECT - JUBAIL, K.S.A - Outdoor sports flooring, artificial grass.
-MINISTRY OF EDUCATION, MIZHER GIRLS SCHOOL - DUBAI, U.A.E - Playground flooring
-WARSAN STABLE - Polyurethane flooring, POLTRACK EQUESTRIAN FLOORING
-AL SHIMAL PARK - DOHA, QATAR - Playground flooring
-UM SELAL PARK - DOHA, QATAR - Playground flooring
-AL KABAN PARK - DOHA, QATAR - Playground flooring
-**GEMS METROPOLE SCHOOL - DUBAI, U.A.E** - Hard court system/Outdoor Multipurpose court
-ARABIAN RANCHES by EMAR - DUBAI, U.A.E - Acrylic Outdoor Tennis and Basketball courts
-RAK MODERN SCHOOL - RAS AL KHAIMAH, U.A.E - Flexfloor system
-GIIS/GLOBAL INDIAN INTERNATIONAL SCHOOL - RAS AL KHAIMAH, U.A.E - Acrylic system
-AVALON HEIGHTS - AJMAN, U.A.E - Acrylic floorings
-DELHI PRIVATE SCHOOL - DUBAI, U.A.E - Acrylic flooring
-ROYAL COMMISSION SCHOOL - JUBALI, KSA - Acrylic sports flooring
-FITNESS TIME PRO - AL AHSA BRANCH - KSA - Flexfloor, Basketball court
-**FITNESS TIME PRO - MAKKAH SHARAIE - KSA** - Flexfloor, Basketball court
-BIN HAM - AL AIN, UAE - Polyurethane flooring
-SHAMMA BINT MOHAMMED SHOOL - AL AIN, UAE - Polyurethane flooring
-ABDULLAH BIN OTAIBA - ABU DHABI, UAE - Polyurethane flooring
-LIWA INTERNATIONAL SCHOOL - AL AIN, U.A.E - Colorflex outdoor sport system.
-ZOHOUR KG - MANAMA, BAHRAIN - Polyurethane sports flooring
-RAWDA RASHED - QATAR- Polyurethane, outdoor sport flooring
-SAAD BIN ABI WAQAS SCHOOL - AL RAYYAN, QATAR - Polyurethane, outdoor sport flooring
-FITNESS TIME PRO - MADINS RING ROAD BRANCH - KSA - Flexfloor, Basketball court
-AGRA CHAIN - AGRA, INDIA - Acrylic sports flooring
-SUNWORLD - NOIDA, INDIA - Acrylic sports flooring
-**SSN INVESTMENTS PRIVATE LIMITED, FRIENDS COLONY - DELHI, INDIA -** Acrylic sports flooring
-**AJNARA - NOIDA, INDIA -** Acrylic sports flooring
-BRIGHT RIDERS SCHOOL - ABU DHABI, UAE - Running track, Acrylic sports court
-OUR OWN ENGLISH HIGH SCHOOL - SHARJAH, U.A.E - Poltrack Spaycoat system
-NCC - JAIS, INDIA - Acrylic sports flooring
-ALPHA FOUNDATION FOR EDUCATION & RESEARCH - TRICHIRAPALLI, INDIA - Acrylic sports flooring
-**PUSHPANJALI FARMS - NEW DELHI, INDIA -** Acrylic sports flooring
-**M3M - MERLIN GURGAON, INDIA -** Acrylic sports flooring
-NORTH LONDON COLLEGIATE SCHOOL - DUBAI, U.A.E - Playground flooring
-FOOT COURT - EGYPT - Running track, POLTRACK SPRAYCOAT system
-FITNESS TIME ANDALUS BRANCH - JEDDAH, K.S.A - Acrylic sports flooring, FLEXFLOOOR SYSTEM
-ST.JOSEPHS WOMENS COLLEGE - ALLEPPEY, KERALA, INDIA - Polyurethane outdoor sports flooring
-WADY DEGLA SHERATON CLUB - CAIRO, EGYPT - Acrylic sports flooring

-RAILWAY SPORTS GROUND - GUNTAKAL, ANDRA PRADESH, INDIA - Acrylic sports flooring

-TERVEL PROJECT - TERVEL, BULGARIA - Playground flooring, SAFEPOL system

-INDOOR COURT - UKRAINE - Polyflex PU-In system

-PRIVATE JOB - HYDERABAD, SOUTH INDIA - Acrylic outdoor sports flooring

-RAILWAY SPORTS GROUND -GUNTAKAL, ANDRA PRADESH, INDIA-Acrylic outdoor sports flooring, 5 layers

-MINISTRY OF EDUCATION U.A.E - Playground flooring

-PLAYGROUND FLOORING - VARNA, BULGARIA - SAFEPOL System

PHOTOGRAPHS OF PROJECTS

CERTIFICATE

LABOSPORT

TEST REPORT

16-0492IT

Issued on October 6th 2016

CLIENT

KATASKEVES DAPEDON LTD

PRODUCT NAME

EPDM 856

TYPE

EPDM GRANULES

Test according to:

DIN 18035-7:2014 Sports Grounds Part 7; Synthetic Turf Areas Determination of Environmental Compatibility

Labosport Italia S.r.l
Via Manzoni, 80 – 22070 CERNUSCO LOMBARDONE (LC)
Tel. +39 039 894 62 18 – Fax +39 039 948 51 69

www.labosport.it
labosport@labosport.it

PAH TEST REPORT
EPDM GRANULES

Intertek Consumer Goods GmbH · Wórzburger Straíe 152 · 90766 Fórth · Germany

KATASKEVES DAPEDON LTD - KDF
MRS. Maria Nikolaidoy
Mitropoleos 19
54024 Thessaloniki
GREECE

Fórth, May 12/2020

TEST REPORT No. FUTYP2020-01959-C

Date sample received: March 06/2020
Period of testing: March 19/2020 – April 29/2020
Technical Director: Kerstin Scharrer

Sample description: **EPDM Granulates E1, E2, E7, E8, E11, E12, E13, E15, E16, E17, E18, E19, E20**

For the test results please refer to next pages

Test order

Test of products for polycyclic aromatic hydrocarbons

Summary	Results
Further requirements	*pass*

Sample description:

No. 1:	Granulate E1 (red rose)
No. 2:	Granulate E2 (orange)
No. 7:	Granulate E7 (brown)
No. 8:	Granulate E8 (dark brown)
No. 11:	Granulate E11 (light blue)
No. 12:	Granulate E12 (dark blue)
No. 13:	Granulate E13 (purple)
No. 15:	Granulate E15 (light grey)
No. 16:	Granulate E16 (dark grey)
No. 17:	Granulate E17 (light green)
No. 18:	Granulate E18 (blue)
No. 19:	Granulate E19 (light brown)
No. 20:	Granulate E20 (EPDM red 0,5-1,5 mm)

Test results

Abbreviations:
n.d. = not determinable (< LoQ)
LoQ = limit of quantification

1. Polycyclic Aromatic Hydrocarbons according to US-EPA+ 2 EFSA PAH and according to Regulation (EC) No. 1907/2006 (REACh) Annex XVII No. 50

Test method: AfPS GS 2019:01 PAK (2019-05)
Limit of quantification: 0.1 mg/kg

Test results in mg/kg

Parameter		CAS-No.	Sample No. 1	Sample No.2	Sample No. 7	Sample No. 8
1	Naphthalene	91-20-3	**0.26**	**0.14**	**0.14**	**0.18**
2	Acenaphthylene	208-96-8	n.d.	n.d.	n.d.	n.d.
3	Acenaphthene	83-32-9	n.d.	n.d.	n.d.	n.d.
4	Fluorene	86-73-7	**0.66**	**0.22**	**0.23**	**0.68**
5	Phenanthrene	85-01-8	**1.9**	**0.40**	**0.46**	**1.1**
6	Anthracene	120-12-7	**0.22**	n.d.	n.d.	n.d.
7	Fluoranthene	206-44-0	**0.39**	**0.14**	**0.18**	n.d.
8	Pyrene	129-00-0	n.d.	n.d.	**0.21**	n.d.
9	Benzo(a)anthracene	56-55-3	**0.23**	n.d.	n.d.	n.d.

Polycyclic Aromatic Hydrocarbons - continued

Test results in mg/kg

Parameter		CAS-No.	Sample No. 1	Sample No.2	Sample No. 7	Sample No. 8
10	Chrysene	218-01-9	**0.28**	n.d.	n.d.	n.d.
∑11+12	Benzo(b)fluoranthene + Benzo(j)fluoranthene	205-99-2 + 205-82-3	n.d.	n.d.	n.d.	n.d.
13	Benzo(k)fluoranthene	207-08-9	n.d.	n.d.	n.d.	n.d.
14	Benzo(e)pyrene	192-97-2	n.d.	n.d.	**0.21**	n.d.
15	Benzo(a)pyrene	50-32-8	n.d.	n.d.	n.d.	n.d.
16	Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	n.d.	n.d.	n.d.
17	Dibenzo(a,h)anthracene	53-70-3	n.d.	n.d.	n.d.	n.d.
18	Benzo(ghi)perylene	191-24-2	n.d.	n.d.	n.d.	n.d.
	Sum 15 PAH		**3.3** [b]	**0.40** [b]	**0.88** [b]	**1.1** [b]

[a] *For summation according to AfPS GS 2019:01 PAK the following PAH are not included: Acenaphthylene, Acenaphthene, Fluorene*
[b] *Only contents from 0.2 mg/kg were used for summation.*

Parameter		CAS-No.	Sample No. 11	Sample No. 12	Sample No. 13	Sample No. 15
1	Naphthalene	91-20-3	**0.34**	**0.30**	n.d.	n.d.
2	Acenaphthylene	208-96-8	n.d.	n.d.	n.d.	n.d.
3	Acenaphthene	83-32-9	n.d.	n.d.	n.d.	n.d.
4	Fluorene	86-73-7	**0.19**	n.d.	**0.32**	**0.21**
5	Phenanthrene	85-01-8	**0.87**	**0.61**	**0.65**	**0.53**
6	Anthracene	120-12-7	n.d.	n.d.	n.d.	n.d.
7	Fluoranthene	206-44-0	**0.25**	**0.16**	n.d.	**0.16**
8	Pyrene	129-00-0	n.d.	n.d.	n.d.	**0.15**
9	Benzo(a)anthracene	56-55-3	n.d.	n.d.	n.d.	n.d.
10	Chrysene	218-01-9	**0.15**	**0.12**	n.d.	n.d.
∑11+12	Benzo(b)fluoranthene + Benzo(j)fluoranthene	205-99-2 + 205-82-3	n.d.	n.d.	n.d.	n.d.
13	Benzo(k)fluoranthene	207-08-9	n.d.	n.d.	n.d.	n.d.
14	Benzo(e)pyrene	192-97-2	n.d.	n.d.	n.d.	n.d.
15	Benzo(a)pyrene	50-32-8	n.d.	n.d.	n.d.	n.d.
16	Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	n.d.	n.d.	n.d.
17	Dibenzo(a,h)anthracene	53-70-3	n.d.	n.d.	n.d.	n.d.
18	Benzo(ghi)perylene	191-24-2	n.d.	n.d.	n.d.	n.d.
	Sum 15 PAH		**1.5** [b]	**0.91** [b]	**0.65** [b]	**0.53** [b]

[a] *For summation according to AfPS GS 2019:01 PAK the following PAH are not included: Acenaphthylene, Acenaphthene, Fluorene*
[b] *Only contents from 0.2 mg/kg were used for summation.*

Polycyclic Aromatic Hydrocarbons - continued

Test results in mg/kg

Parameter		CAS-No.	Sample No. 16	Sample No. 17	Sample No. 18	Sample No. 19
1	Naphthalene	91-20-3	n.d.	n.d.	n.d.	n.d.
2	Acenaphthylene	208-96-8	n.d.	n.d.	n.d.	n.d.
3	Acenaphthene	83-32-9	n.d.	n.d.	n.d.	n.d.
4	Fluorene	86-73-7	n.d.	n.d.	**0.45**	n.d.
5	Phenanthrene	85-01-8	n.d.	**0.12**	**0.81**	**0.12**
6	Anthracene	120-12-7	n.d.	n.d.	n.d.	n.d.
7	Fluoranthene	206-44-0	n.d.	n.d.	n.d.	n.d.
8	Pyrene	129-00-0	n.d.	n.d.	n.d.	n.d.
9	Benzo(a)anthracene	56-55-3	n.d.	n.d.	n.d.	n.d.
10	Chrysene	218-01-9	n.d.	n.d.	n.d.	n.d.
∑11+12	Benzo(b)fluoranthene + Benzo(j)fluoranthene	205-99-2 + 205-82-3	n.d.	n.d.	n.d.	n.d.
13	Benzo(k)fluoranthene	207-08-9	n.d.	n.d.	n.d.	n.d.
14	Benzo(e)pyrene	192-97-2	n.d.	n.d.	n.d.	n.d.
15	Benzo(a)pyrene	50-32-8	n.d.	n.d.	n.d.	n.d.
16	Indeno(1,2,3-cd)pyrene	193-39-5	n.d.	n.d.	n.d.	n.d.
17	Dibenzo(a,h)anthracene	53-70-3	n.d.	n.d.	n.d.	n.d.
18	Benzo(ghi)perylene	191-24-2	n.d.	n.d.	n.d.	n.d.
	Sum 15 PAH		**n.d.** [b]	**n.d.** [b]	**0.81** [b]	**n.d.** [b]

[a] *For summation according to AfPS GS 2019:01 PAK the following PAH are not included: Acenaphthylene, Acenaphthene, Fluorene*
[b] *Only contents from 0.2 mg/kg were used for summation.*

Parameter		CAS-No.	Sample No. 20
1	Naphthalene	91-20-3	n.d.
2	Acenaphthylene	208-96-8	n.d.
3	Acenaphthene	83-32-9	n.d.
4	Fluorene	86-73-7	n.d.
5	Phenanthrene	85-01-8	n.d.
6	Anthracene	120-12-7	n.d.
7	Fluoranthene	206-44-0	n.d.
8	Pyrene	129-00-0	n.d.
9	Benzo(a)anthracene	56-55-3	n.d.
10	Chrysene	218-01-9	n.d.
∑11+12	Benzo(b)fluoranthene + Benzo(j)fluoranthene	205-99-2 + 205-82-3	n.d.
13	Benzo(k)fluoranthene	207-08-9	n.d.
14	Benzo(e)pyrene	192-97-2	n.d.
15	Benzo(a)pyrene	50-32-8	n.d.
16	Indeno(1,2,3-cd)pyrene	193-39-5	n.d.
17	Dibenzo(a,h)anthracene	53-70-3	n.d.
18	Benzo(ghi)perylene	191-24-2	n.d.
	Sum 15 PAH		**n.d.** [b]

[a] *For summation according to AfPS GS 2019:01 PAK the following PAH are not included: Acenaphthylene, Acenaphthene, Fluorene*
[b] *Only contents from 0.2 mg/kg were used for summation.*

Conclusion

The tested sample of the presented products "**EPDM Granulates E1, E2, E7, E8, E11, E12, E13, E15, E16, E17, E18, E19, E20**" conform to the EC-Regulation 1907/2006, Annex XVII No. 50.

Intertek Consumer Goods GmbH
Wórzburger Straíe 152
90766 Fórth, Germany

Tel.: +49 911 74075 0
Fax: +49 911 74075 30
cg.germany@intertek.com

Sitz Fórth
Amtsgericht Fórth, HRB 5756
USt-IdNr. DE169317871

Geschδftsfóhrer
Reinhold Gehling

Remark

Requirements acc. to AfPS GS 2019:01 PAK (Utilization for GS-mark from July 1st, 2020) and Regulation (EC) No. 1907/2006, Annex XVII No. 50

Parameter	Category 1	Category 2		Category 3		Limit value acc. to EC regulation 1907/2006, Annex XVII No. 50	
	Materials intended to be put into the mouth, or materials in toys according to Directive 2009/48/EC or materials in articles for use by children up to three years of age with prolonged skin contact (longer than 30s) when used as intended	Materials, not covered by category 1, with prolonged skin contact (longer than 30s) or repeated short-term skin contact when used as intended or in a foreseeable way		Materials, not covered by category 1 or category 2, with short-term skin contact (up to 30 s) when used as intended or in a foreseeable way		Toys, including activity toys, and childcare articles – Components rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use	Articles shall not be placed on the market for supply to the general public, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use
		a. Use by children	b. other consumer products	a. Use by children	b. other consumer products		
Benzo[a]pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	0.5	1
Benzo[e]pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	0.5	1
Benzo[a]anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	0.5	1
Benzo[b]fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	0.5	1
Benzo[j]fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	0.5	1
Benzo[k]fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	0.5	1
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	0.5	1
Dibenzo[a,h]anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	0.5	1
Benzo[ghi]perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	-	-
Indeno[1,2,3-cd]pyrene mg/kg	< 0,2	< 0.2	< 0.5	< 0.5	< 1	-	-
Phenanthrene, Pyrene, Anthracene, Fluoranthene, mg/kg	< 1 – Sum	< 5 – Sum	< 10 – Sum	< 20 – Sum	< 50 - Sum	-	-
Naphthalene mg/kg	< 1	< 2		< 10		-	-
Sum 15 PAH mg/kg	<1	< 5	< 10	< 20	< 50	-	-
Evaluation	-	-	-	-	-	pass	-

General note:

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END OF REPORT

Intertek Consumer Goods GmbH
Wórzburger Straíe 152
90766 Fórth, Germany

Tel.: +49 911 74075 0
Fax: +49 911 74075 30
cg.germany@intertek.com

Sitz Fórth
Amtsgericht Fórth, HRB 5756
USt-IdNr. DE169317871

Geschδftsfóhrer
Reinhold Gehling

PLAYGROUND FLOORINGS

QUICKLAWN SAFEPOL SANDPROOF-EPDM

Innovative, elastic, seamless, flexible colored flooring, ideal for playground floorings.

It consists of a cushion base, with a first layer of a prefabricated, special, safety pad for playground flooring, **RAPIDFOAM 868**, followed by a layer of **PU PRIMER 870** with polyester net, and third layer a mixture of **EPDM** granules (granulometry 0.5-1.5mm) with **PU BINDER 1178** in thickness of 15mm.

Then follows the modified sealing, sandproof and waterproof **KDF-PU 1055** pore filler with high elasticity in 2 crossing layers and the modified, **KDF-PU 1056**, sealing, UV-resistant, aliphatic, elastic, glossy top layer in 3 crossing layers.

It provides an excellent safety flooring with a very quick application in a variety of colors creating a closed porous surface. This kind of playground flooring is very easy to be cleaned and maintained.

Steps:

1. **RAPIDFOAM 868 - Prefabricated special safety pad for playground floorings.**
2. **PU PRIMER 870 - Special, polyurethane primer with a polyester net**.
3. **Mixture of PU BINDER 1178 and EPDM 856 in granulometry of 0.5-1.5mm.**
   Applied by flat metal trowel after spreading and leveling with rake and straightedge. Rolling with cylinder follows for compacting.
4. **KDF-PU 1055 - Polyurethane, modified, sandproof and waterproof, elastic pore filler.**
   Applied by metal trowels to create a completely non porous surface.
5. **KDF-PU 1056 - Polyurethane, modified, UV-resistant, aliphatic, elastic, glossy, two-component top coating.**

Description	Consumption
RAPIDFOAM 868 - Prefabricated special safety pad for playground floorings.	
PU PRIMER 870 - Special, polyurethane primer.	0.25-0.3kg/m^2
POLYESTER NET	
PU BINDER 1178 - Special, polyurethane binder (for mixture of 15mm thickness).	3kg/m^2
EPDM 856 **-** EPDM granules in granulometry of 0.5-1.5mm (for mixture of 15mm thickness) .	15kg/m^2
KDF-PU 1055 - Polyurethane, modified, sandproof and waterproof, elastic pore filler.	2kg/m^2
KDF-PU 1056 - Polyurethane, modified, UV-resistant, aliphatic, elastic, glossy, two-component top coating.	0.4kg/m^2

QUICKLAWN PLAYGROUND SANDPROOF with EPDM

CLOSED POROUS SYSTEM

Innovative, elastic, seamless, flexible colored flooring, ideal for playground floorings.
It consists of a cushion base, with a first layer of a prefabricated, special, safety pad for playground flooring, **RAPIDFOAM 868**, followed by a layer of **PU PRIMER 870** with polyester net, and third layer a mixture of **EPDM** granules (granulometry 0.5-1.5mm) mixed with **PU BINDER 1178** in thickness of 15mm.

Then follows the modified sealing, sandproof and waterproof **KDF-PU 1055** pore filler with high elasticity in 2 crossing layers and the modified, **KDF-PU 1056**, sealing, UV-resistant, aliphatic, elastic, glossy top layer in 3 crossing layers.

It provides an excellent safety flooring with a very quick application in a variety of colors and closed pores.
Playground flooring that is easy to be cleaned and maintained.

Steps:

1. RAPIDFOAM 868 - Prefabricated special safety pad for playground floorings.
2. PU PRIMER 870 - Special, polyurethane primer with a polyester net.
3. Mixture of **PU BINDER 1178** and **EPDM** granules in granulometry of 0.5-1.5mm.
4. KDF-PU 1055 - Polyurethane, modified, sandproof and waterproof, elastic pore filler.
5. KDF-PU 1056 - Polyurethane, modified, UV-resistant, aliphatic, elastic, glossy, two-component top coating.

<u>Preparation – Application</u>

Applied only on dry asphalt and concrete surfaces (over 30 days old from date of placement for asphalt and 40 days for concrete) without rising humidity issues and free of materials that might prevent bonding e.g. dust, loose particles, grease etc. The success in the application depends on the right preparation of the underlay and use of the material.

- **Good, dry** cleaning of the surface from dust and residues.
- Place the pads, **RAPIDFOAM 868,** on the installation area. The pads have to be installed without gaps and in bond, it is not necessary to tape the pads. The pads can easily be fitted around the anchoring of the playground equipment, by making an incision in the foam. Gluing the pads to the sub-base is not necessary.
- Priming of the surface with the special **POLYURETHANE PRIMER 870** in two layers. Consumption: 200-250 gr/m^2, depending on the absorption of the underlay. A polyester net is placed between the first and second layer of **PU PRIMER 870.** Applied by brush in two layers. It is recommended that the second layer should be applied

in sections each time, right before the application of the mixture of **PU BINDER 1118** and **RECYCLED RUBBER 858** in order to ensure proper adhesion, especially on the edges and endings of the playground flooring.

- After 5-12 hours and when the primer is almost dry but not completely, application of the **mixture of PU BINDER 1178 and EPDM granules, in granulometry 0.5-1.5mm** with paver machine to have the appropriate elasticity on the subfloor, in thickness of 15mm. Consumption 18kg/m^2/cm.
- Afterwards when the surface of EPDM is dry, application of **polyurethane, modified, sandproof and waterproof, elastic pore filler KDF-PU 1055 with metal trowels to create a completely non porous surface with consumption 2 kg per square meter in 2 layers.**
- Before the last **UV-resistant top layers** are applied, the surface needs the use of sandpaper machine to make a completely even surface without any irregularities or loose crumbs.
- After the sandpaper of the whole surface is finished follows the application of 350 gr/square meter of our **polyurethane, modified, UV-resistant, aliphatic, elastic, glossy, two-component top coating KDF-PU 1056** in two cross layers by airless spray or by rollers.

Important Remarks

- During summer or during temperatures over 40 degrees, ideal time for the application of **QUICKLAWN SANDPROOF with EPDM** is between 22:00 and 09:00 and temperature less than 40^{o}C, while in the winter, the minimum bearing temperature during application and drying should be over 10^{o}C.
- The freshly coated surface should be protected from high temperatures, wind, rain and frost for at least the first 24 hours.

Substrate

Asphalt is the safer subfloor for sport floorings for sure and must be always preferred than concrete surfaces.

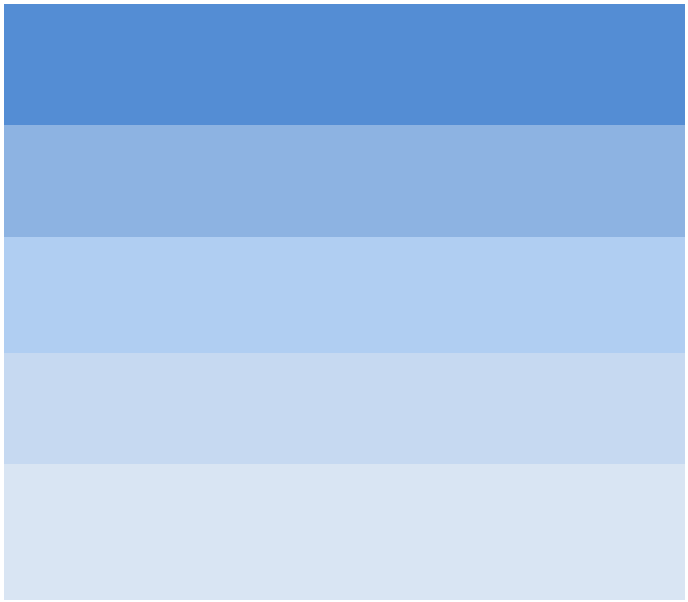
A. Asphalt Substrate

The asphalt must have a slope of 0.7-1% and must dry for at least 30 days so that all solvents from the asphalt can evaporate.

The asphalt sub-floor should be applied on well compacted 150mm road base sub-floor and asphalt should be laid in one layer (and not 2) in 6 to 8cm with fine and coarse aggregates (up to 15mm granulometry) like the kind of asphalt used in road construction.

So, new road-grade asphalt will have to be laid (minimum 60mm) in one layer containing coarse aggregates and then mature for 30 days at least, before any application takes place on top of the asphalt to avoid bubbles on the final layer of the sport or rubber floorings.

Asphalt Infrastructure



Fine asphalt base in thickness of 6cm with very fine aggregates by finisher

Asphalt primer

Good compaction by vibration

Fine gravel 10cm

Gravel stone in thickness of 15cm

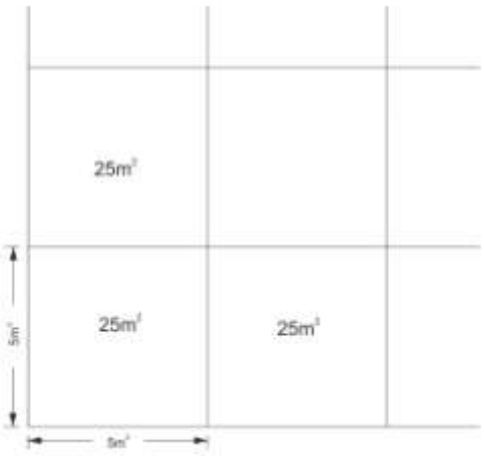
B. Concrete Surface

Concrete surface must be power-trowelled without cracks and must be smooth with a slope of 0.7-1% and humidity under 4% in 10cm depth of concrete.

Concrete must also be **dry at least for 40 days** and then the application takes place if there is no rising humidity for the sub-floor. Before the application takes place, there must be proper grinding of the surface by a grinding machine to open the pores accordingly and also a measurement by special instrument to measure humidity on the surface and in 10cm under the surface.

Generally concrete is a risky sub-floor and there may be problems with rising humidity, especially in areas where the sea level is really high and when the sea is close or in areas near greenery.

Always make expansion joints in large areas of concrete, in order to avoid uncontrollable cracks and failures. Joints should be every 25 square meters creating a grid of 5x5 meters or close to that.



SUBSTRATE REQUIREMENTS	Concrete quality	at least C20/25
	Age:	at least 40 days
	Moisture content:	below 4%

Tools:

Colors: Following color-chart.

The colors may vary slightly from the original due to digital representation.

The colors may vary slightly from the original due to digital representation.

EDITION: JANUARY 2020

RAPIDFOAM PAD 868

PREFABRICATED SHOCK-PAD FOR PLAYGROUND FLOORING

GENERAL CHARACTERISTICS

RAPIDFOAM PAD 868 is the prefabricated cushion sub-base of the playground flooring **QUICKLAWN PLAYGROUND SYSTEMS** of **SAFEPOL** and **SANDPROOF**, in pad lawn and in different thickness with a final PU, smooth, non-porous finish or even **EPDM** or **TPV** finish. It's saves a lot of time during the application and minimizes the duration of the project time keeping also the project clean.

RAPIDFOAM's PAD 868 sealed surface transforms totally the meaning of playground flooring worldwide. It provides an excellent critical fall height results with long term performance and resistance. **RAPIDFOAM PAD 868** can be installed in combination with different surface's finishes as EPDM granules or EPDM granules plus polyurethane sealed system or European SBR granules plus polyurethane sealed system in 15mm.

Offers:

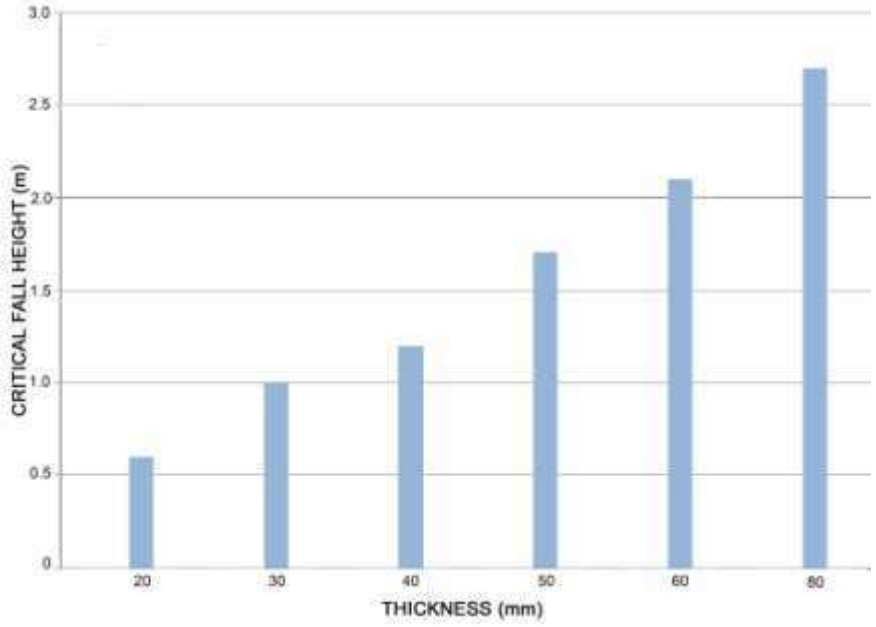
- **Uniform** critical fall height over the surface.
- Stable critical fall height **at high level** on long term bases.
- **Good dimensional stability.**
- **Extremely easy and fast to install.**

TECHNICAL DATA

HIC according to EN 1177
Critical fall height@ HIC = 1000 (in m)

Thickness	20mm	30mm	40mm	50mm	60mm	80mm
Critical Fall Height	**0.6**	**1.0**	**1.2**	**1.7**	**2.1**	**2.7**

H



PREPARATION-APPLICATION

The sub-surface on which the material will be installed must be completely dry and clear of all foreign matter and free of dust, dirt, oil or any kind of spills.

- **PLAYGROUND FLOORING with KDF RAPIDFOAM PAD 868 AS SEALED, NON-POROUS SURFACES**

  Combination of the prefabricated cushion sub-base **KDF RAPIDFOAM PAD 868** with a mixture of **SBR** or **EPDM** or **TPV granules** with PU Binder in thickness of 15mm and then a special PU pore sealer and PU, UV-resistance top coating.

- **PLAYGROUND FLOORING with KDF RAPIDFOAM PAD 868 AS OPEN-POROUS SYSTEM**

  Combination of the prefabricated cushion sub-base **KDF RAPIDFOAM PAD 868** with a mixture of **EPDM granules** with PU Binder, on top, in thickness of 15mm.

EDITION: MAY 2019

PU PRIMER 870

TRANSPARENT, ONE COMPONENT, POLYURETHANE-BASED PRIMER, USED AS AN ADHESIVE COMPONENT BETWEEN SUBFLOOR AND SPORTS SYSTEMS

GENERAL CHARACTERISTICS

POLYURETHANE PRIMER 870 is a clear, polyurethane-based, one-component primer, which is used as an adhesive component between the sub-floor and sport systems.

- Penetrates in depth.
- Ideal for old and new surfaces.

TECHNICAL DATA

Basis:	one-component polyurethane
Appearance:	liquid
Color:	transparent
Viscosity:	50 – 250 mPa s at 25^{o}C
Density:	0.9- 1.0 Kg/Lt
Temperature for the application and drying of the material:	10 – 40^{o}C

PREPARATION-APPLICATION

Applied on dry surfaces without rising humidity issues, free of materials that might prevent bonding e.g. dust, loose particles, grease etc (in case of asphalt or concrete). The success in the application depends on the right preparation of the underlay and use of the material.

- **Good, dry** cleaning of the surface from dust and residues.
- Priming of the surface with **PU PRIMER 870** applied by airless sprayer equipment or brush, roller. The base layer (wet-pour mixture of SBR and PU BINDER 1118) should be constructed while **PU PRIMER 870** is still a bit sticky. Curing takes place at ambient temperature by evaporation of the solvent and reaction with atmospheric moisture. High temperatures and moisture will shorten the cure time. **PU PRIMER 870** is applied in two or more layers as a thin film, and on the final layer, wet-pour mixture of SBR and PU BINDER 1118 can be applied on sticky surface.
- The temperature should not fall below 10^{o} C during curing.
- Opened drums should be used up quickly.
- The layer (wet-pour mixture of SBR and PU BINDER 1118) should be constructed while the final layer of **PU PRIMER 870** is still sticky.
- **NOTE: Rain will cause the primer to lose its function! If the primer was affected by rain, the base layer should not be constructed! Instead, the sub floor has to dry and the primer application has to be repeated.**

CONSUMPTION

200-300 gr/m^2 depending on the type and the absorbency of the underlay.

APPLICATION TOOLS

Brush and airless sprayer. Tools should be cleaned with a PU solvent immediately after use.

PACKAGING

Drums / Barrels.

STORAGE	One year in unopened containers in cool and dry places, out of sunlight, with minimum temperature 5°C and maximum temperature 30°C.
REMARKS	- Working time of **POLYURETHANE PRIMER 870** decreases when ambient temperature rises. - Prolonged storage of partially used containers containing **POLYURETHANE PRIMER 870** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
CAUTION	The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water. **For more information consult the safety data sheet.**

EDITION: MAY 2019

PU BINDER 1178

SPECIAL POLYURETHANE BINDER

GENERAL CHARACTERISTICS

100% solids, aromatic polyisocyanate-prepolymer moisture-curing binder based on diphenylmethane diisocyanate. It is MDI based and solvent free. It exhibits excellent adhesion to all rubber granules and gives a strong performance both in terms of tensile strength and durability.

It is mixed with **RECYCLED RUBBER 858, SBR granules,** for the creation of the innovative, elastic, safety playground flooring **SAFEPOL SANDPROOF SYSTEM** or other flexible rubber floorings, ideal for playgrounds, schools etc.

PU BINDER 1178 cured with the air humidity, has low viscosity and is solvent free. **PU BINDER 1178** combines and bonds SBR or EPDM rubber granules, RIM components, polyurethane granules and sponge particles. Also it can be used as lining for insulation and for pasting.

TECHNICAL DATA

Density (25°C)	1,09±0.1 gr/cm³
Viscosity (25°C)	8000±mPas
Color	Clear, pale yellow

SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 30 days
Moisture content:	below 4%

PREPARATION-APPLICATION

On-site applications: Applied on dry surfaces, free of materials that might prevent bonding e.g. dust, loose particles etc (in case of asphalt or concrete). The success in the application depends on the right preparation of the underlay and use of the material.

- **Good, dry** cleaning of the surface from dust and residues.
- Priming of the surface with the special **POLYURETHANE PRIMER 870** in two layers. Consumption: 250-400 gr/m^2, depending on the absorption of the underlay. It is recommended that the second layer should be applied in sections each time, right before the application of **PU BINDER 1178** and **SBR granules** in order to ensure proper adhesion.
- Good mixing of the **PU BINDER 1178** and the **RECYCLED RUBBER 858 in granulometry of 2-4mm or 2-5mm**. Mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve homogeneity.
- Following, the mixture is poured on the surface and spread on the desired thickness using paving machine or it can be done manually if the applicator is experienced, with rake for spreading, (wooden) straightedge for initial smoothing, flat metal trowel for final smoothing and compacting, cylinder weighing 8-15kg for final compacting-(cylinder should be cleaned repeatedly with diesel to remove stuck granules from its surface). Consumption: 7kg/m^2/cm.
- Good mixing of the **PU BINDER 1178** and the **RECYCLED RUBBER 858 in granulometry of 0.5-2mm**. Mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve homogeneity.
- Following, the mixture is poured on the surface and spread on the desired thickness using paving machine or it can be done manually if the applicator is experienced, with rake for

spreading, (wooden) straightedge for initial smoothing, flat metal trowel for final smoothing and compacting, cylinder weighing 8-15kg for final compacting-(cylinder should be cleaned repeatedly with diesel to remove stuck granules from its surface). Consumption: 7,2kg/m^2/cm.

- Follows the application of **KDF-PU 1055** a special waterproof and sandproof, polyurethane pore filler.
- And finally a top coat is applied, **KDF-PU 1056**, polyurethane, modified, UV-resistant, aliphatic, elastic, glossy, two-component top coating.

PACKAGING

220kg in barrels.

STORAGE

One year in unopened containers in dry places with minimum temperature 5°C and maximum temperature 30°C, protected from moisture and heat.

REMARKS

The floor must be smooth, dry and clean. Must be removed from oil, dirt, rust and burr. Do not add any foreign material. Concrete humidity should not be above 4%, ambient humidity should be at least 40% and most 80%.To begin the application, must wait for the appropriate humidity

Working time of **PU BINDER 1178** decreases when ambient temperature rises.

Prolonged storage of partially used containers containing **PU BINDER 1178** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.

CAUTION

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

For more information consult the material safety data sheet.

EDITION: MAY 2019

EPDM 856

RUBBER GRANULES

GENERAL CHARACTERISTICS

Type of material: Rubber EPDM

Grain size: 0.8-2.5mm,1.0-3mm,1.0-4mm or others

PERFORMANCE OF SAMPLE 25%

Test item	Performance
Tensile strength (Mpa)	>4.3
Elongation at break (%)	>735
Hardness (shore A)	60-65
Specific gravity (kg/cm³)	1.45 ± 0.05

PREPARATION-APPLICATION

EPDM 856 granules are basically used for wet pour colored playground floorings (granulometry 1-3mm), for flexible multipurpose outdoor courts in 10-20 mm, SYSTEM COLORFLEX, and in applications of running track system such as POLTRACK SANDWICH SYSTEM (granulometry 1-3mm) and POLTRACK SPRAYCOAT SYSTEM (granulometry 0.5-1.5 mm).

Can be used also as infill of artificial synthetic turf or in the production of epdm rubber tiles or even loose lay and around swimming pools as a flexible flooring.

REMARKS

- It is highly suggested (especially in hot climates like in Middle East countries) the usage of the UV-resistance top coat **POLYSPORT XP 1069**, which gives a strong UV protection and doesn't allow the change of color to occur. **POLYSPORT XP 1069** is produced in all EPDM colour range and needs to be applied with 0,4 kg/m2 in two crossing layers by airless sprayer or rollers.
- In case that there is no usage of UV-resistance polyurethane aliphatic coating strong shades like blue, rose, orange, grey etc will alter.
- All technical data are correct to the best of our knowledge and are intended to help our customers.
- They do not constitute a guarantee of qualities and provide on bases for legal liability.
- We advise our customers to choose the PU-binder according to the type and color of the EPDM rubber granules.

EDITION: DECEMBER 2019

KDF-PU 1055 PORE FILLER

FOR SANDPROOF-WATERPOOF PLAYGROUND FLOORINGS

GENERAL CHARACTERISTICS

KDF-PU 1055 PORE FILLER is a sealing, sandproof and waterproof modified pore filler with high elasticity that can be applied over SBR cushion layers.

KDF-PU 1055 PORE FILLER resists against sand penetration/ depositing, humidity, water and most of the chemicals. It has very good filling capacity and thixothropic properties. It has low fluidity feature with its filler structure. It can be easily applied. It provides strong and very elastic filling after the reaction.

TECHNICAL DATA

Mixing Ratio	90.8 : 9.2 (By weight)
Density of mixture (25°C)	1.69-1.79 Kg/lt
Viscosity of mixture (25°C)	40000-55000 mPa s at 25°C
Pot-life (25°C)	30-40 min
Application temperature	Min 10°C
Curing (25°C and %60 relative humidity)	After 24 hours it can be sanded
Color	Creme

PREPARATION-APPLICATION

It is used to fill pores, cracks, dilation spaces, holes to smooth and repair the floor and other filling applications. Especially used for sealing and sandproofing in-situ applied SBR (or EPDM) layers in SAFEPOL SANDPROOF system

The resin component should be thoroughly stirred to incorporate any slight separation, whilst continuing stirring the contents of the hardener container should be added. Continue stirring until a homogeneous mix is obtained. The mixed material must be used within 30-40 minutes of mixing at 25ºC The surface must be dry and clean. **KDF-PU 1055 PORE FILLER** can be applied by trowel.

CONSUMPTION

2 kg per m² (depends on the surface absorbance and SBR granulation)

PACKAGING

Barrels 280kg

STORAGE

One year in unopened containers in cool and dry places, out of sunlight, with minimum temperature 5°C and maximum temperature 30°C.

REMARKS

Substrate must be dry, clean, and free from dust, grease and oil. Application must be done between 10°C - 40°C.

KDF-PU 1055 PORE FILLER has to be thoroughly sanded before the application of the top

aliphatic coat **KDF-PU 1056 TOP COATING** in order to provide a smooth clean surface for the aliphatic top coat that will follow right after the sanding process is completed.

By no means **KDF-PU 1055 PORE FILLER** should be applied in thickness. The material is a pore filler and not a levelling material, and so it should be applied as pore filler (thin dragged layer over the substrate). In case it is applied in some areas in thickness, those areas should be well ground with sanding machine before subsequent layers in order to avoid cracking of the material due to oversized thickness.

Attention should be given also to possible trapped humidity in the pore filler, which could lead to cracks in the material or bubbles of the material.

Moreover, it is important that the mixing ratio between PU BINDER to SBR or EPDM rubber in the underlying cushion mixtures is kept as stable as possible in order to obtain similar flexibility of the cushion throughout the surface. Otherwise, areas with different flexibilities might occur. Same can happen if the mixing is not properly done in the paving machine or in the barrels/drums to secure uniformity throughout.

CAUTION

Harmful if swallowed. Seek immediately medical attention. Rubber gloves and safety glasses with side guards should be worn.

For more information consult the material safety data sheet.

EDITION: DECEMBER 2019

KDF-PU 1056 TOP COATING

FOR SANDPROOF-WATERPOOF PLAYGROUND FLOORINGS

GENERAL CHARACTERISTICS

KDF-PU 1056 TOP COATING is a polyurethane, two-component, solvent-based, glossy finish aliphatic, elastic coating for outdoor sports surfaces.

It is applied as a final, sealing layer on top of playground floorings made of **SBR rubber** plus **PU binder mixture**, or **EPDM** plus **PU binder** mixture, on safety tiles. Especially used as the sealing top coat in the **SAFEPOL SANDPROOF** system.

Provides a glossy surface with exceptional resistance in abrasion and various chemical agents.

It is UV-resistant and thus absolutely suitable for outdoor surfaces.

TECHNICAL DATA

Mixing Ratio (transparent)	83,5 :16,5 (By weight)
Mixing Ratio (colored)	78 : 22 by weight
Density (25°C)	app. 1,3±0.1 gr/cm3
Application Temperature	Min 10°C
Curing (25°C)	8-10 hour
Color	18 colors from KDF color chart

PREPARATION-APPLICATION

- Good, dry cleaning of the surface from dust and residues using vacuum cleaner and squeegees.
- Caution must be taken so that temperature of the support surface as well as ambient air remains above 15^{o}C during application and curing of the materials while relative humidity does not exceed 75%.
- The resin component should be thoroughly stirred to incorporate any slight separation, whilst continuing stirring the contents of the hardener container should be added. Continue stirring until a homogeneous mix is obtained. Airless sprayer or roller can apply **KDF-PU 1056 TOP COATING**.

CONSUMPTION

App.350-400 gr/m² for the SAFEPOL SANDPROOF system. Apply three coats at least.

PACKAGING

5kg, 15kg set (A+B).

STORAGE

12 months in unopened containers in dry places with minimum temperature 5^{o}C and maximum temperature 30^{o}C.

REMARKS

- Working time of **KDF-PU 1056 TOP COATING** decreases when ambient temperature rises.
- Prolonged storage of partially used containers containing **KDF-PU 1056 TOP COATING** must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
- After hardening **KDF-PU 1056 TOP COATING** is completely safe for health.
- The three layers of **KDF-PU 1056 TOP COATING** will have to be applied strictly within 24 hours of one another (European conditions) **or within 3-6 hours (GCC high-temperature conditions)** in order to cover the surface swiftly and protect it from unwanted weather or other adverse conditions (sand dust, accumulated dirt or foreign matter etc.). In case the 24-hour limit (Europe) or the 3-6-hour limit (GCC) is surpassed or weather or other adverse conditions interfere between layers at any time, the surface might need sanding again to restore smoothness and cleanliness before applying subsequent layers of the aliphatic top coat.

CAUTION

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.
For more information consult the material safety data sheet.

CLEANING AND MAINTENANCE MANUAL FOR :
-OUTDOOR SPORTS FLOORING
-PLAYGROUND FLOORINGS

Introduction

Outdoor sports floorings and playground surfaces are made of extremely durable polymers, designed to withstand extreme climate conditions and intense use. However for the best maintenance of the rubber and sport surface a regular check (once in 6 months) is required and the maintenance of the surface is necessary to preserve the suitability of the surface (sand pits, areas of vegetation) which could leave algae, moss and leaf deposits.

The installer's guarantee will usually be conditional on the recommended maintenance requirements being carried out with due diligence.

Maintenance

Maintenance procedures are necessary to preserve the lifetime of the surface and to ensure that:

- The Surface is kept clean.
- The Surface is safe for intense diverse use and all types of users.
- The facility looks attractive.

These objectives are achieved by :

- Sweeping/scraping/removing leaves and other debris and foreign matter from the surface.
- Regularly washing the surface to remove contaminants such as grime, grease, algae, moss, sand, foreign matter etc.
- Applying suitable treatments of moss-killer and/or algaecide
- Periodically removing weed growth from the perimeter kerb lines.

Maintenance Equipment

Leaves, pine needles and other detritus should not be allowed to remain on the surface for any length of time. If this does happen, they rapidly rot down, forming a contaminating "skin" on the surface and providing a growth media for algae and moss.

A mechanical leaf-sweeper or vacuum cleaner is ideal for removing vegetable matter and dirt. Restricted areas may have to be cleaned by hand.

The equipment should be well maintained and carefully operated to avoid contamination of, or physical damage to, the surface. Spillage of fuel or lubricating oil will damage the surface.

The pressure loading on the surface as well as the friction and shearing loads have to be kept to a minimum to prevent damage to the surface. Large pneumatic tires and soft brushes along with careful operating of the machinery, is recommended to avoid any damage on the surface.

A mechanical leaf-sweeper or vacuum cleaner is ideal for removing vegetable matter and dirt. Restricted areas may have to be cleaned by hand.

The equipment should be well maintained and carefully operated to avoid contamination of, or physical damage to, the surface. Spillage of fuel or lubricating oil will damage the surface.

The pressure loading on the surface as well as the friction and shearing loads have to be kept to a minimum to prevent damage to the surface. Large pneumatic tires and soft brushes along with careful operating of the machinery, is recommended to avoid any damage on the surface.

At least once a year it is advisable to wash the surface with low-pressure jetting apparatus.

Polymeric surfaces can with stand low pressures without suffering damage.

Note that no aggressive chemical cleaning agents (chlorine or acid-based) should be used; normal neutral market detergents are adequate.

Prevention of damages

To ensure maintaining the surfaces to a high standard, restrictions should be imposed on the use of the surface.

- In general no vehicles should be permitted to drive on the outdoor sports/playground surface.
- No chemicals, oils, fuel or solvents should be allowed on the surface.
- No fireworks or cigarettes or inadequate shoes should be allowed on the synthetic surface.

Damages and renovation

The lifetime of an outdoor sports/playground surface depends on its quality, usage and level of maintenance. In general a normal outdoor sports/playground surface used intensively will last 7 to 12 years (depending on the system) before renovation is required. Renovation should be carried out periodically to prevent the total damage of the surface, which would necessitate complete renewal.

Renovation must be carried out by professional and skilled contractors with thorough knowledge of this type of work

There are different procedures for the renovation of a surface:

- Complete renewal by replacing the worn-out surface with a new sports flooring system.
- Re-topping or sealing with adequate polyurethane or acrylic materials.
- Partial re-topping in particular worn-out areas.

Information contained in this document is of general nature and is given in good faith. As the state of the surface and the use and application of the various cleaning products, is out of our control, our advice for individual cases, verbal, written or based on tests, does not exempt the applicator from the testing the suitability of the cleaning products and their applications.

The above maintenance guide refers to **the below KDF systems:**

-**SYSTEM SPORTFLOOR-EX**

-SYSTEM FLEXFLOOR-EX

-SYSTEM POLYFLEX AEL EX

-SYSTEM POLYFLEX WET POUR AEL-EX

-SYSTEM POLYFLEX PU EX

-SYSTEM POLYFLEX WET POUR PU- EX

-SYSTEM SMARTFLOOR

-SYSTEM SAFEPOL

-SYSTEM SAFEPOL WITH TPV GRANULES

-SYSTEM SAFEPOL COLORED

-SYSTEM SAFEPOL SANDPROOF

-SYSTEM QUICKLAWN PLAYGROUND SAFEPOL

-SYSTEM QUICKLAWN PLAYGROUND SAFEPOLSANDPROOF

-SYSTEM COLORFLEX

-SYSTEM SPORTGROUND-EX

-SYSTEM POLTRACK SPRAYCOAT

-SYSTEM POLTRACK SPRAYCOAT SEALED

-SYSTEM POLTRACK SANDWICH

-SYSTEM POLTRACK SANDWICH IN ROLLS

-SYSTEM POLTRACK FULL PU

-SYSTEM POLTRACK ACRYLIC

-SYSTEM POLTRACK JOGGING TRACK

-SYSTEM POLTRACK PU JOGGING TRACK

-SYSTEM POLTRACK JOGGING TRACK SBR

-SYSTEM POLTRACK JOGGING TRACK SHOCK-PAD - EPDM

-SYSTEM POLTRACK JOGGING TRACK SHOCK-PAD - ISOPOL

-SYSTEM POLTRACK EQUINE

CERTIFICATES OF KDF Ltd

ISO KDF Ltd

POLTRACK SPRAYCOAT

POLTRACK SANDWICH

POLYFLEX AEL-EX

FLEXFLOOR-EX

SPORTFLOOR-EX

SPORTFLOOR-EX FAST

POLTRACK EQUINE

BADMINTON POLYFLEX PU

CERTIFICATES OF KDF Ltd

POLYFLEX PU

SPORTGROUND-EX

POLTRACK JOGGING TRACK

FIBA POLYFLEX PU

SAFEPOL

SAFEPOL

EPDM 856

SAFEPOL SANDPROOF

SAFEPOL SANDPROOF

CERTIFICATES OF KDF Ltd

PLAYPREM

POLTRACK FULL-PU

PU GRASS 149

PAH TEST REPORT
PU BINDER 1118

PAH TEST REPORT
PU BINDER 1125 AL

PAH TEST REPORT
EPDM 856

PAH TEST REPORT
PU BINDER plus EPDM 856